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# THE WOOL BOOK

--1892--

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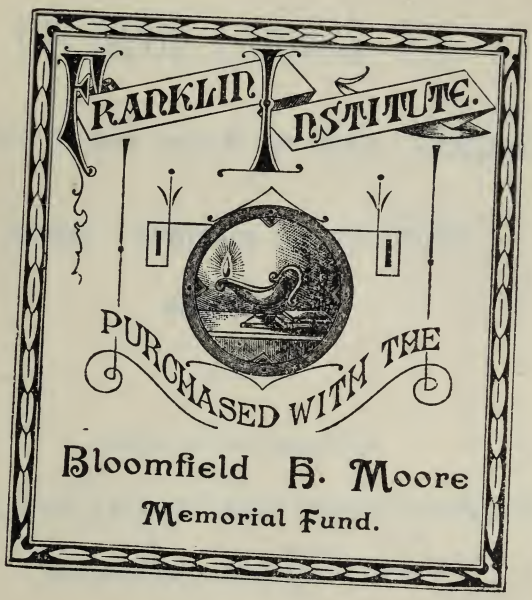


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## ERRATA.

Table 1, page 15.— Estimate of pounds of wool grown in 1891 should read 307,401,507.

Table 23, page 37 — The value of clothing imported in 1891 should read $2,107,232, and the duties collected $1,524,947.

Table 25, page 37. — Previous to 1891 all flannels were reported together; in 1891, flannels for underwear only are here reported, all others are included with Dress Goods, table 26, page 38.

Table 28, page 39. — Under rulings of the Board of General Appraisers, a portion of the Knit Goods imported are reported under the head of Clothing, table 23, page 37.

Table 29, page 39. — Rags, Shoddy, etc., imported in 1890, should read — quantity, 4,985,266 pounds; value $2,037,731; duties collected, $498,527. Table 29 includes not only rags and shoddy, but noils and all descriptions of wool wastes.

Table 33, page 40.— To this table should be added in 1891, Plushes and Pile Fabrics, 204,333 pounds; value, $171,890; duty, $204,378.

# THE WOOL BOOK

## A Statistical Manual

CONTAINING

*The Latest Official Information of the Production, Movement, and Consumption of Wool in all Countries, Wool and Woolens Tariff of 1890, Manufacturing Tables, etc., etc.*

FOR MANUFACTURERS, DEALERS, GROWERS, IMPORTERS, SUPERINTENDENTS, AGENTS, COMMISSION MERCHANTS, ETC.

COMPILED FOR THE

NATIONAL ASSOCIATION OF WOOL MANUFACTURERS

BY

S. N. D. NORTH
*Secretary*

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*MANUFACTURERS OF*

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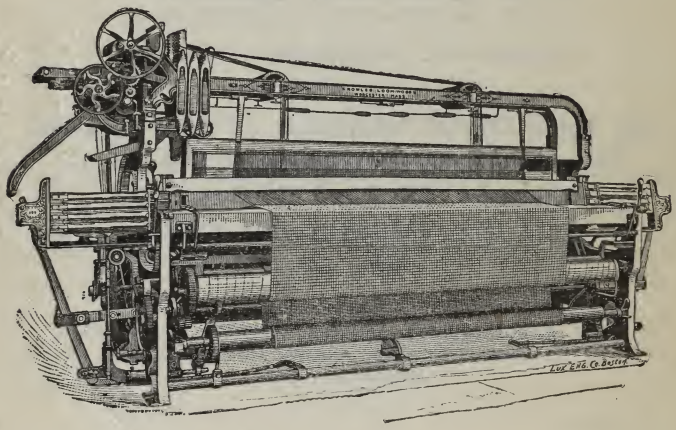

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# PREFACE.

The National Association of Wool Manufacturers has been led to the publication of this volume by the great need, long felt, for a manual of authentic wool statistics, similar to "Cotton Facts," annually published for fifteen years by Mr. A. B. Shepperson, of New York. It has seemed to the management of the Association that in no other way can it better serve the interests of the industry, than by authorizing this publication, with an assurance of its accuracy. More and more, as time passes, the great industries are conducted on the basis of accurate statistical information of the production, movement, and consumption of raw material and product; and the wool trade and manufacture are greatly handicapped in the United States by the lack of a standard compendium of the data relating to wool.

The great bulk of the information contained in this volume is almost daily required in some branch of the wool business, and has hitherto been accessible only in trade circulars, or widely scattered through official documents hard to obtain.

The aim has been to make a book easily carried in the pocket, and yet containing every item of statistical information ordinarily required in the course of his business by the wool manufacturer, the wool grower, the wool buyer, the wool importer or broker, the commission merchant, the mill agent, superintendent or overseer, the manufacturer or dealer in mill supplies, the statistician, and the public man.

Its contents include all available data regarding the wool clip of every country, the consumption of all manufacturing nations, the prices of wools for a long series of years, the export and import trade of the wool manufacturing nations, and especially the imports of wool and woolens into the United States. To these

are added shrinkage tables, and the yarn tables and other computations ordinarily used in textile mills; all the Census statistics of the wool manufacture for 1890; and official data regarding the machinery capacity of other nations. Finally, the wool and woolen schedule of the tariff act of 1890 is added in a convenient form for reference.

No such mass of statistical information regarding wool and its handling has ever before been published in so convenient a form in this or any other country.

Great pains have been taken to secure absolutely authentic data. Official figures are given wherever possible, and in all cases the source of information is stated. In some cases the figures of different authorities are at variance; in such cases, both authorities are stated.

We are under obligations for advice and assistance in the preparation of this Handbook to Hon. S. G. Brock, Chief of the Bureau of Statistics, Hon. J. R. Dodge, Statistician of the Department of Agriculture, Hon. John A. Tibbits, U. S. Consul at Bradford, England, Mr. George William Bond, Mr. William G. Benedict, of Denny, Rice & Co., Mr. Edward N. Fenno, of Fenno Bros. & Childs, Mr. Charles F. Avery, of Mauger & Avery, The McNaughton Co., Mr. A. B. Shepperson, of "Cotton Facts," Mr. W. A. Blanchard, of Boston, Mr. Albert Chapman, of Middlebury, Vt., Mr. Curtis Guild, Jr., editor of the Boston "Commercial Bulletin," Mr. Henry G. Kittredge, editor of the "Boston Journal of Commerce," Mr. Edward D. Page, of Faulkner, Page & Co., Mr. E. B. Biggar, of the "Canadian Journal of Fabrics," and many others, without whose kindly interest and assistance the Association could not have presented a book so free from errors and so generally trustworthy.

We have drawn very freely from the wool circulars of Helmuth Schwartze & Co., Windeler & Co., Dalgety & Co., and the "Bradford Observer," and our obligations to all these houses are publicly acknowledged.

# GLOSSARY OF TRADE TERMS.

BY CHARLES F. AVERY.

Wools grown in the United States (except in a few of the older Middle States) are generally shorn without washing, and the product of each sheed (called the *clip*) is tied into a bundle and termed the *fleece*.

The terms used in the wool trade to designate domestic wools refer to condition, or degree of cleanness; quality, or degree of fineness; and staple, or length and strength of fibre.

American wools are usually collected from the growers as produced.

## Condition.

*Washing.* — Sheep are driven into watercourses and a portion of the *yolk* (natural secretion through the skin, held in suspension in the wool) and dirt washed out before shearing.

*Unmerchantable Wool.* — Wool poorly washed is known as unmerchantable.

*Unwashed Wool.* — Wool on which no attempt at washing has been made is called unwashed.

The condition of washed wools is growing poorer; fifteen years ago fine wools lost in scouring 48 per cent. and sometimes less; the average present loss in Ohio and Michigan wools is nearer 55 per cent.

*Scouring.* — Wool washed perfectly clean by mechanical and chemical processes in machines prepared for that purpose is known as scoured wool.

## Quality.

The qualities are Picklock, XXX, XX, X, No. 1 (or half-blood), No. 2 (or three-eighths), No. 3, or quarter-blood, and coarse or common. These qualities are liable to variation in many wool-houses, according to the varying demand.

*Picklock* (now very scarce) is the quality produced from a pure Saxony sheep.

*XXX.* — The first cross of the merino with the Saxony.

*XX.* — The true standard is the quality of a full-blood merino.

*X.* — Is three-quarter blood merino.

*No. 1, No. 2*, etc., indicate the variations in purity of blood from the pure merino, from crossing with common sheep.

*Coarse Wool.* — The product of sheep with but little trace of merino blood.

*Braid Wool.* — The clip of bright-haired (lustrous) wooled sheep, almost pure, as Lincoln, Cotswold, and Leicester.

## Staple.

Wools are classified according to staple into clothing wools, combing wools, and delaine wools.

*Clothing Wools.* — Wools to be carded.

*Combing Wools.* — Wools to be combed so as to leave the fibres parallel.

*Delaine Wools.* — Practically combing wools of merino blood, and may be called fine (X and above), or medium (half-blood).

*Felting Wools.* — The semi-annual clips of portions of Texas and California are sometimes so designated.

*Noils.* — The refuse, short-stapled wool resulting from combing.

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*Grading* is the arranging into qualities without untying the fleeces.

*Sorting* is done by the manufacturer, who separates the fleece into different qualities or sorts according to fineness, length and strength of staple, whiteness, etc., and is the first process of manufacturing.

*Neck, breech, belly*, etc., indicate the location where grown on the body of the sheep, but the nomenclature of wool varies in different mills.

*Skirting.* — The separation of the inferior portions from the fleece.

*Tags.* — A sort of short dung locks.

*Pulled Wool.* — Wool from slaughtered sheep. It is rubbed off after soaking the skin. Pulled wools are classified according to quality and length of staple. For quality the terms are XX, Extra, A Super, B Super, C Super, etc.; for length, Combing and Delaine.

*Lambs' Wools* are pulled from lamb skins, and are sometimes subdivided into qualities by the large pullers.

*Shearlings.* — The short wool obtained from skins of sheep shorn before slaughtering. Used principally by hatters.

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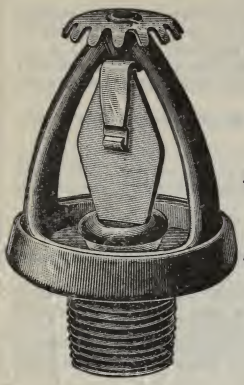

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FOUNDED, NOV. 20, 1864.

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# THE WOOL BOOK.

**Copies of this Publication may be obtained of the undersigned. Price, 75 cents, postage paid. Additional copies at reduced prices.**

**S. N. D. NORTH, Sec'y,**
**70 Kilby St., Boston.**

## THE UNITED STATES.

### No. 1. Number, Average Price and Value of Sheep on Farms in the United States.

| From the Annual Reports of the Commissioner of Agriculture. | | | | Pounds of Wool Grown. | |
|---|---|---|---|---|---|
| | | | | Dept. of Agriculture. | 1867 to 1885 estimated by James Lynch, New York; 1886 to 1891, by J. P. Truitt, Phila. |
| Date of Report. | Number. | Ave'age price. | Value. | Pounds. | Pounds. |
| 1810 | 10,000,000 | . . . . | . . . . . | 13,000,000 | |
| 1820 | . . . . . | . . . . | . . . . . | 14,100,000 | |
| 1830 | . . . . . | . . . . | . . . . . | 17,829,000 | |
| 1840 | 19,311,000 | . . . . | . . . . . | 35,802,114 | |
| 1850 | 21,723,000 | . . . . | . . . . . | 52,516,969 | |
| 1860 | 22,471,275 | . . . . | . . . . . | 60,264,913 | |
| 1867 | 39,385,386 | 3.37 | $132,774,660 | 160,000,000 | 160,000,000 |
| 1868 | 38,991,912 | 2.52 | 98,407,809 | 168,000,000 | 177,000,000 |
| 1869 | 37,724,279 | 2.17 | 82,139,979 | 180,000,000 | 162,250,000 |
| 1870 | 40,853,000 | 2.23 | 93,364,433 | 162,000,000 | 163,00,000 |
| 1871 | 31,851,000 | 2.32 | 74,035,837 | 160,000,000 | 146,000,000 |
| 1872 | 31,679,300 | 2.80 | 88,771,197 | 150,000,000 | 160,000,000 |
| 1873 | 33,002,400 | 2.96 | 97,922,350 | 158,000,000 | 174,700,000 |
| 1874 | 33,938,200 | 2.61 | 88,630,560 | 170,000,000 | 178,000,000 |
| 1875 | 33,783,600 | 2.79 | 94,320,652 | 181,000,000 | 193,000,000 |
| 1876 | 35,935,300 | 2.60 | 93,666,318 | 192,000,000 | 198,250,000 |
| 1877 | 35,804,200 | 2.27 | 80,892,683 | 200,000,000 | 208,250,000 |
| 1878 | 35,740,500 | 2.25 | 80,603,062 | 208,250,000 | 211,000,000 |
| 1879 | 38,123,800 | 2.07 | 79,023,984 | 211,000,000 | 232,500,000 |
| 1880 | 40,765,900 | 2.21 | 90,230,537 | 232,500,000 | 264,000,000 |
| 1881 | 43,576,899 | 2.39 | 104,070,759 | 240,000,000 | 290,000,000 |
| 1882 | 45,016,224 | 2.37 | 106,595,954 | 272,000,000 | 300,000,000 |
| 1883 | 49,237,291 | 2.53 | 124,365,835 | 290,000,000 | 320,400,000 |
| 1884 | 50,626,626 | 2.37 | 119,902,706 | 300,000,000 | 337,500,000 |
| 1885 | 50,360,243 | 2.14 | 107,960,650 | 308,000,000 | 329,600,000 |
| 1886 | 48,322,331 | 1.91 | 92,443,867 | 302,000,000 | 323,031,026 |
| 1887 | 44,759,314 | 2 01 | 89,872,839 | 285,000,000 | 302,169,950 |
| 1888 | 43,544,755 | 2.05 | 89,279,926 | 269,000,000 | 301,876,121 |
| 1889 | 42,599,079 | 2.13 | 90,640,369 | 265,000,000 | 295,779,479 |
| 1890 | 44,336,072 | 2.27 | 100,659,761 | 276,000,000 | 309,474,856 |
| 1891 | 43,431,136 | 2.51 | 108,397,447 | 285,000,000 | 307,101,507 |
| 1892 | 44,938,365 | 2.58 | 116,121,270 | | |

The figures previous to 1867 are from the United States Census Reports.

### No. 2. Average Weight of Fleeces as Estimated by United States Department of Agriculture.

In 1840 the average weight of the fleece was barely 1.9 pounds; in 1850 it was 2.4 pounds; 1860, 2.7 pounds; 1870, 3.5 pounds; 1880, 4.8 pounds; 1887, 5.1 pounds; 1891, 5.5 pounds.

## No. 3.—Number of Sheep in the United States, 1840 to 1891.

(Expressed in thousands.)

| States and Territories. | 1840. | 1850. | 1860. | 1870. | 1875. | 1880. | 1885. | 1890. | 1891. |
|---|---|---|---|---|---|---|---|---|---|
| Maine | 649 | 452 | 453 | 435 | 492 | 596 | 548 | 542 | 548 |
| N. Hampshire | 617 | 385 | 311 | 249 | 242 | 242 | 201 | 193 | 183 |
| Vermont | 1,682 | 1,014 | 752 | 580 | 516 | 499 | 386 | 362 | 352 |
| Massachusetts | 378 | 189 | 115 | 79 | 76 | 63 | 68 | 57 | 56 |
| Rhode Island | 90 | 44 | 33 | 24 | 25 | 28 | 21 | 20 | 20 |
| Connecticut | 404 | 174 | 117 | 84 | 88 | 97 | 59 | 47 | 46 |
| Total N.E. Sts. | 3,820 | 2,258 | 1,781 | 1,451 | 1,439 | 1,525 | 1,283 | 1,221 | 1,205 |
| New York | 5,119 | 3,453 | 2,618 | 2,182 | 1,996 | 2,206 | 1,698 | 1,549 | 1,394 |
| New Jersey | 219 | 160 | 135 | 120 | 127 | 127 | 119 | 103 | 100 |
| Pennsylvania | 1,768 | 1,823 | 1,632 | 1,794 | 1,674 | 1,649 | 1,487 | 945 | 1,040 |
| Delaware | 39 | 28 | 19 | 23 | 23 | 39 | 23 | 22 | 23 |
| Maryland | 258 | 178 | 156 | 130 | 139 | 153 | 172 | 154 | 158 |
| Total Mid. Sts. | 7,403 | 5,642 | 4,560 | 4,249 | 3,959 | 4,174 | 3,499 | 2,773 | 2,715 |
| Virginia | 1,294 | 1,310 | 1,043 | 370 | 368 | 426 | 477 | 445 | 445 |
| North Carolina, | 538 | 595 | 547 | 463 | 276 | 425 | 488 | 415 | 398 |
| South Carolina, | 233 | 286 | 234 | 125 | 147 | 177 | 118 | 102 | 99 |
| Georgia | 267 | 560 | 513 | 419 | 375 | 374 | 532 | 412 | 383 |
| Florida | 7 | 23 | 30 | 27 | 32 | 60 | 98 | 110 | 112 |
| Alabama | 163 | 372 | 370 | 242 | 182 | 214 | 344 | 286 | 275 |
| Mississippi | 129 | 305 | 353 | 233 | 147 | 200 | 282 | 240 | 235 |
| Louisiana | 98 | 110 | 181 | 119 | 63 | 135 | 121 | 115 | 114 |
| Texas | ... | 101 | 753 | 714 | 1,446 | 5,148 | 7,558 | 4,753 | 4,990 |
| Arkansas | 42 | 91 | 203 | 161 | 183 | 294 | 225 | 270 | 270 |
| Tennessee | 742 | 812 | 773 | 827 | 326 | 859 | 636 | 511 | 512 |
| West Virginia | ... | ... | ... | 552 | 539 | 600 | 638 | 509 | 519 |
| Kentucky | 1,008 | 1,102 | 939 | 937 | 760 | 1,010 | 951 | 806 | 766 |
| Tot'l South. Sts. | 4,521 | 5,667 | 5,939 | 5,189 | 4,844 | 9,922 | 12,468 | 8,974 | 9,118 |
| Ohio | 2,029 | 3,943 | 3,547 | 4,929 | 4,593 | 4,080 | 4,900 | 3,944 | 4,062 |
| Michigan | 100 | 746 | 1,272 | 1,986 | 3,416 | 1,856 | 2,364 | 2,241 | 2,263 |
| Indiana | 676 | 1,123 | 991 | 1,613 | 1,300 | 1,019 | 1,122 | 1,278 | 1,150 |
| Illinois | 396 | 894 | 769 | 1,568 | 1,380 | 1,111 | 1,093 | 688 | 772 |
| Wisconsin | 3 | 125 | 333 | 1,069 | 1,211 | 1,316 | 1,283 | 809 | 890 |
| Minnesota | ... | ... | 13 | 132 | 176 | 308 | 273 | 327 | 332 |
| Iowa | 15 | 150 | 259 | 855 | 1,698 | 454 | 472 | 476 | 452 |
| Missouri | 348 | 762 | 937 | 1,352 | 1,366 | 1,523 | 1,339 | 1,198 | 899 |
| Kansas | ... | ... | 17 | 109 | 118 | 372 | 838 | 438 | 447 |
| Nebraska | ... | ... | 2 | 23 | 43 | 173 | 374 | 239 | 235 |
| Colorado | ... | ... | ... | 121 | ... | ... | 1,186 | 1,784 | 1,820 |
| Total West. Sts. | 3,567 | 7,743 | 8,140 | 13,757 | 15,301 | 12,212 | 15,244 | 13,422 | 13,322 |
| California | ... | 18 | 1,088 | 2,768 | 4,683 | 7,647 | 5,893 | 4,035 | 3,712 |
| Nevada | ... | ... | ... | 11 | 19 | ... | 424 | 701 | 505 |
| Oregon | ... | 15 | 86 | 318 | 634 | 1,265 | 2,520 | 2,930 | 2,432 |
| Washington | ... | ... | 10 | 44 | ... | ... | 534 | 673 | 674 |
| Tot'l Pac. Coast | ... | 33 | 1,184 | 3,141 | 5,336 | 8,912 | 9,371 | 8,339 | 7,323 |
| Dakota | ... | ... | ... | 2 | ... | ... | 184 | 266 | 275 |
| Idaho | ... | ... | ... | 1 | ... | ... | 191 | 487 | 502 |
| Montana | ... | ... | ... | 2 | ... | ... | 625 | 1,990 | 2,067 |
| New Mexico | ... | 377 | 830 | 619 | ... | ... | 5,411 | 3,093 | 3,134 |
| Arizona | ... | ... | ... | 1 | ... | ... | 853 | 698 | 594 |
| Utah | ... | 3 | 37 | 60 | ... | ... | 621 | 2,056 | 2,056 |
| Wyoming | ... | ... | ... | 6 | ... | ... | 610 | 1,017 | 1,119 |
| Total, all others | ... | 380 | 867 | 691 | 2,904 | 14,020 | 8,495 | 9,607 | 9,747 |
| Total U. S. | 19,311 | 21,723 | 22,471 | 28,478 | 33,783 | 40,765 | 50,360 | 44,336 | 43,430 |

[1] Includes Nevada and Colorado.

NOTE. — The figures from 1840 to 1870, inclusive, are taken from the reports of the United States Census. Those from 1875 to 1891 are from the official reports of the Department of Agriculture.

**No. 4.—Sheep in Each State, Jan. 1, 1892, No., Price, and Value.**
*Department of Agriculture.*

| | Number. | Average Price. | Value. |
|---|---|---|---|
| Maine | 569,577 | $3 01 | $1,717,274 |
| New Hampshire | 188,678 | 2 87 | 540,751 |
| Vermont | 358,274 | 3 29 | 1,179,725 |
| Massachusetts | 57,644 | 3 89 | 223,947 |
| Rhode Island | 20,433 | 4 35 | 88,884 |
| Connecticut | 47,199 | 4 08 | 192,454 |
| Total New England States | 1,241,805 | $3 58 | $3,943,035 |
| New York | 1,421,455 | $3 80 | $5,401,529 |
| New Jersey | 102,077 | 4 05 | 413,922 |
| Pennsylvania | 1,091,477 | 3 83 | 4,178,173 |
| Delaware | 22,967 | 3 87 | 88,768 |
| Maryland | 164,680 | 3 91 | 644,558 |
| Total Middle States | 2,802,656 | $3 89 | $10,726,950 |
| Virginia | 449,009 | $3 05 | $1,370,016 |
| North Carolina | 390,261 | 1 82 | 710,275 |
| South Carolina | 89,073 | 1 89 | 167,903 |
| Georgia | 383,017 | 1 76 | 673,956 |
| Florida | 117,028 | 2 06 | 241,499 |
| Alabama | 269,292 | 1 65 | 443,927 |
| Mississippi | 223,578 | 1 50 | 335,367 |
| Louisiana | 118,488 | 1 61 | 191,240 |
| Texas | 5,040,175 | 1 55 | 7,808,239 |
| Arkansas | 264,094 | 1 50 | 396,537 |
| Tennessee | 506,007 | 2 19 | 1,105,879 |
| West Virginia | 529,204 | 3 11 | 1,646,354 |
| Kentucky | 773,336 | 3 18 | 2,456,889 |
| Total Southern States | 9,152,562 | $2 07 | $17,548,081 |
| Ohio | 4,468,087 | $3 30 | $14,724,581 |
| Michigan | 2,353,779 | 3 21 | 7,560,338 |
| Indiana | 1,161,702 | 3 70 | 4,298,762 |
| Illinois | 848,092 | 3 57 | 3,025,314 |
| Wisconsin | 907,708 | 2 96 | 2,688,630 |
| Minnesota | 357,101 | 2 80 | 998,598 |
| Iowa | 565,031 | 3 42 | 1,933,084 |
| Missouri | 916,623 | 2 57 | 2,355,262 |
| Kansas | 469,433 | 2 34 | 1,096,595 |
| Nebraska | 269,804 | 2 56 | 690,887 |
| Colorado | 1,710,395 | 2 49 | 4,263,673 |
| Total Western States | 14,027,755 | $2 99 | $43,635,724 |
| California | 4,083,541 | $2 42 | $9,884,211 |
| Nevada | 504,710 | 2 49 | 1,256,223 |
| Oregon | 2,456,077 | 2 24 | 5,491,789 |
| Washington | 686,521 | 2 71 | 1,858,824 |
| Total Pacific Coast | 7,730,849 | $2 47 | $18,491,047 |
| Dakota (North and South) | 590,000 | $3 15 | $1,861,460 |
| Idaho | 527,077 | 2 40 | 1,264,985 |
| Montana | 2,089,337 | 2 50 | 5,228,566 |
| New Mexico | 2,967,480 | 1 54 | 4,556,566 |
| Arizona | 611,452 | 2 30 | 1,406,340 |
| Utah | 2,055,900 | 2 26 | 4,650,466 |
| Wyoming | 1,141,492 | 2 46 | 2,808,070 |
| Total all others | 9,982,738 | $2 37 | $21,776,453 |
| Total United States | 44,938,365 | $2 58 | $116,121,290 |

## No. 5.—Number of Pounds of Wool grown in 1891.

ON THE BASIS OF J. P. TRUITT'S ESTIMATE.

| STATES AND TERRITORIES. | Estimated average weight of Fleeces. | Number of Sheep as per Agricult'l Dept., 1891. | Washed and Unwashed. | Estimated average per cent. shrinkage in scouring. | Scoured Wool. |
|---|---|---|---|---|---|
| Maine | 6 | 547,670 | 3,286,020 | 40 | 1,971,612 |
| New Hampshire | 6 | 183,183 | 1,099,098 | 60 | 439,639 |
| Vermont | 7 | 351,249 | 2,458,743 | 60 | 983,497 |
| Massachusetts | 6 | 55,965 | 335,790 | 50 | 167,895 |
| Rhode Island | 6 | 20,433 | 122,598 | 40 | 73,559 |
| Connecticut | 5 | 45,824 | 229,120 | 45 | 126,016 |
| New York | 6 | 1,393,583 | 8,361,498 | 50 | 4,180,749 |
| New Jersey | 5 | 100,075 | 500,375 | 50 | 250,187 |
| Pennsylvania | 6 | 1,039,502 | 6,237,012 | 55 | 2,806,655 |
| Delaware | 6 | 22,517 | 135,102 | 50 | 67,551 |
| Maryland | 4 | 156,838 | 627,352 | 50 | 313,676 |
| Virginia | 5 | 444,563 | 2,222,815 | 50 | 1,111,407 |
| North Carolina | 5 | 398,226 | 1,991,130 | 55 | 896,009 |
| South Carolina | 5 | 98,970 | 494,850 | 50 | 247,425 |
| Georgia | 4 | 383,017 | 1,532,068 | 42 | 888,599 |
| Florida | 5 | 111,455 | 557,275 | 45 | 306,501 |
| Alabama | 4 | 274,788 | 1,099,152 | 50 | 549,576 |
| Mississippi | 6 | 235,345 | 1,412,070 | 55 | 635,432 |
| Louisiana | 5 | 113,931 | 569,655 | 55 | 256,345 |
| Texas | 6 | 4,990,272 | 29,941,632 | 60 | 11,976,653 |
| Arkansas | 7 | 269,484 | 1,886,388 | 65 | 660,236 |
| Tennessee | 6 | 511,118 | 3,066,708 | 55 | 1,380,019 |
| West Virginia | 5 | 518,827 | 2,594,135 | 40 | 1,556,481 |
| Kentucky | 6 | 765,679 | 4,594,074 | 40 | 2,756,444 |
| Ohio | 5 | 4,061,897 | 20,309,485 | 50 | 10,154,742 |
| Michigan | 6½ | 2,263,249 | 14,711,118 | 58 | 6,178,670 |
| Indiana | 5½ | 1,150,200 | 6,326,100 | 45 | 3,479,355 |
| Illinois | 6 | 770,993 | 4,625,958 | 50 | 2,312,979 |
| Wisconsin | 6 | 889,910 | 5,339,460 | 60 | 2,135,784 |
| Minnesota | 6 | 330,649 | 1,983,894 | 65 | 694,363 |
| Iowa | 6 | 452,025 | 2,712,150 | 65 | 949,253 |
| Missouri | 6 | 898,650 | 5,391,900 | 60 | 2,695,950 |
| Kansas | 7 | 447,079 | 3,129,553 | 65 | 1,095,344 |
| Nebraska | 7 | 234,612 | 1,642,284 | 65 | 574,799 |
| California | 6½ | 3,712,310 | 24,130,015 | 66 | 8,204,205 |
| Oregon | 7 | 2,431,759 | 17,022,313 | 60 | 6,808,925 |
| Nevada | 7 | 504,710 | 3,532,970 | 65 | 1,236,540 |
| Colorado | 7 | 1,819,569 | 12,736,983 | 65 | 4,457,944 |
| Arizona | 8 | 593,643 | 4,749,144 | 70 | 1,424,743 |
| Dakota | 7 | 274,319 | 1,920,233 | 65 | 672,082 |
| Idaho | 7 | 501,978 | 3,513,846 | 65 | 1,229,846 |
| Montana | 7 | 2,067,337 | 14,471,359 | 65 | 5,064,976 |
| New Mexico | 4 | 3,133,663 | 12,534,652 | 40 | 7,520,791 |
| Utah | 7 | 2,055,900 | 14,391,300 | 55 | 6,476,085 |
| Washington | 6 | 673,060 | 4,038,360 | 60 | 1,615,344 |
| Wyoming | 7 | 1,119,110 | 7,833,770 | 65 | 2,741,820 |
| | | 43 419,136 | 262,401,507 | | 112,326,703 |
| Pulled Wool, Dept. of Agric. Estimate | . . . | . . . . . | 45,000,000 | . . . . | 27,000,000 |
| | | | 307,401,507 | | 139,326,703 |

Average shrinkage, 54.87 per cent.

## No. 6.—California Wool Products, 1891.

THOS. DENIGAN SON & CO.

*Wool Receipts in 1891.*

| | | Pounds. |
|---|---|---|
| Received in San Francisco from points in California, | 71,604 bags. | 24,845,976 |
| Shipped East from interior points of California . . | | 4,067.500 |
| Held at interior points of California . . . . . | | 100,000 |
| Total California Clip of 1891 . . . . . | | 29,013,976 |
| Received in San Francisco from Nevada and Territories . . . . . | 5,380 " | 1,500,000 |
| Received in San Francisco from Oregon and Washington . . . . . | 13,426 " | 4,296,320 |
| Received in San Francisco from foreign (Australian) ports . . . . . | 5,847 bales. | 1,403,280 |
| | 96,257. | 36,213,576 |
| Stock on hand Jan. 1, 1891 . . . . . | | 7,397,000 |
| | | 43,610,576 |

SHIPMENTS IN 1891.

| | | |
|---|---|---|
| From San Francisco by rail to East, grease and pulled . . . . . | 19,536,960 | |
| From San Francisco by sea to East, grease and pulled . . . . . | 1,464,026 | |
| From San Francisco by sea to East, scoured . . . . . | 37,840 | |
| From San Francisco by rail to East, scoured . . . . . | 5,773,750 | |
| Being product of grease wool . . . . . | 17,359,090 | |
| Consumption of local mills . . . . . | 1,250,000 | |
| Wool held in country . . . . . | 100,000 | |
| Wool sold and awaiting shipment, Jan. 1 . . . . . | 1,400,000 | |
| | | 41,110,076 |
| On hand in San Francisco Jan. 1, 1892 . . . . . | | 2,500,500 |

## San Francisco Wool Quotations, 1891.

SPRING CLIP.

| | |
|---|---|
| Choice Northern (Humbolt & Mendocino) . . . . . | 21 to 22½ cts. per lb. |
| Good Northern Red Bluff, etc. . . . . | 20 to 22 " " " |
| Defective Northern . . . . . | 16 to 17½ " " " |
| Good choice San Joaquin . . . . . | 15 to 16 " " " |
| Good San Joaquin (twelve months' growth) . . . . . | 13 to 15 " " " |
| Southern Coast . . . . . | 12½ to 14 " " " |

FALL CLIP.

| | |
|---|---|
| Choice Northern (Humbolt & Mendocino) . . . . . | 15 to 17 cts. per lb. |
| Good Northern . . . . . | 13 to 14 " " " |
| San Joaquin . . . . . | 10 to 11 " " " |
| Heavy San Joaquin & Southern . . . . . | 8 to 9 " " " |

OREGON.

| | |
|---|---|
| Choice Valley . . . . . | 21 to 23 cts. per lb. |
| Choice Eastern . . . . . | 16 to 18 " " " |
| Good Eastern . . . . . | 12½ to 15 " " " |

FREIGHTS.

| | |
|---|---|
| Grease wool by rail (various routes) . . . . . | 1½ cts. per lb. |
| Grease wool by steamer *via* Cape Horn . . . . . | ¾ " " " |
| Grease wool by vessel . . . . . | ¾ " " " |
| Scoured wool by rail (various routes) . . . . . | 2½ " " " |
| Scoured wool by steamer *via* Cape Horn . . . . . | 1 " " " |

**No. 7.—Wools entered for Consumption in the United States, 1867-1891, by Class, Quantity, and Value.**

| Years. | No. 1 Clothing. | | No. 2 Combing. | | No. 3 Carpet Wools. | | Total Pounds. |
|---|---|---|---|---|---|---|---|
| | Pounds. | Value. | Pounds. | Value. | Pounds. | Value. | |
| 1867 | 1,270,356 | $415,609 | 150,302 | $31,827 | 36,263,017 | $5,332,074 | 37,683,675 |
| 1868 | 4,681,679 | 918,588 | 1,804,272 | 332,315 | 18,006,600 | 2,704,768 | 24,582,551 |
| 1869 | 2,512,202 | 505,715 | 4,533,367 | 1,092,297 | 27,650,371 | 3,653,082 | 34,695,940 |
| 1870 | 6,530,493 | 1,249,152 | 2,752,569 | 765,147 | 29,351,006 | 3,416,024 | 38,634,068 |
| 1871 | 5,957,461 | 1,201,201 | 17,665,600 | 3,167,835 | 26,550,995 | 3,335,638 | 50,174,056 |
| 1872 | 16,871,332 | 4,183,960 | 41,155,460 | 8,952,131 | 36,259,141 | 6,435,468 | 94,315,933 |
| 1873 | 6,029,488 | 1,744,200 | 48,540,231 | 12,723,501 | 28,642,863 | 5,998,465 | 84,212,582 |
| 1874 | 2,398,210 | 815,307 | 27,087,438 | 6,193,150 | 27,308,090 | 4,603,410 | 56,793,738 |
| 1875 | 13,117,679 | 3,602,535 | 7,760,157 | 2,153,261 | 30,799,458 | 4,472,826 | 51,686,294 |
| 1876 | 8,643,366 | 2,187,713 | 3,167,307 | 1,153,504 | 28,465,005 | 4,546,398 | 40,275,678 |
| 1877 | 9,294,029 | 2,202,639 | 2,509,954 | 830,715 | 28,310,411 | 3,979,617 | 40,114,394 |
| 1878 | 9,916,012 | 2,431,043 | 3,028,869 | 969,683 | 26,856,280 | 3,594,640 | 39,801,161 |
| 1879 | 5,229,987 | 1,114,301 | 1,709,601 | 413,761 | 33,163,054 | 3,988,752 | 40,102,642 |
| 1880 | 26,785,172 | 6,412,273 | 13,266,856 | 3,801,730 | 59,320,412 | 7,699,663 | 99,372,440 |
| 1881 | 20,609,707 | 4,751,454 | 4,421,491 | 1,271,332 | 42,385,769 | 6,038,041 | 67,416,967 |
| 1882 | 13,489,923 | 3,042,407 | 2,318,671 | 648,252 | 47,208,175 | 6,642,699 | 63,016,769 |
| 1883 | 11,546,530 | 2,567,443 | 1,373,114 | 343,987 | 40,130,323 | 5,580,558 | 53,049,967 |
| 1884 | 20,703,843 | 4,700,605 | 4,474,396 | 1,058,758 | 62,525,692 | 7,833,936 | 87,703,931 |
| 1885 | 13,472,432 | 2,994,533 | 3,891,914 | 921,252 | 50,782,306 | 5,558,479 | 68,146,652 |
| 1886 | 23,321,759 | 4,344,189 | 4,872,739 | 1,106,116 | 79,716,052 | 8,343,908 | 107,910,550 |
| 1887 | 23,196,734 | 4,330,498 | 9,703,962 | 2,270,058 | 81,504,477 | 9,741,814 | 114,404,173 |
| 1888 | 16,452,513 | 3,648,780 | 5,568,068 | 1,322,862 | 74,710,686 | 9,090,459 | 97,231,267 |
| 1889 | 22,973,088 | 4,764,015 | 6,651,719 | 1,556,309 | 96,556,467 | 11,112,435 | 126,181,274 |
| 1890 | 21,387,867 | 4,856,640 | 7,662,978 | 1,895,535 | 80,851,260 | 9,412,866 | 109,902,105 |
| 1891 | 26,520,670 | 6,025,152 | 6,973,921 | 1,640,202 | 85,895,689 | 9,404,468 | 119,390,280 |

## AMOUNT OF WOOL DUTIES PAID IN 1890 AND 1891.

| | 1890. | 1891. |
|---|---|---|
| Clothing wools | $2,193,319 | $2,867,492 |
| Combing wools | 778,855 | 762,743 |
| Carpet wools | 2,488,711 | 2,922,032 |
| Total | $5,460,885 | $6,552,267 |

## No. 8.—Imports of Class III. Wools entered for Consumption.

FISCAL YEARS 1880–91.

*Bureau of Statistics U.S. Treasury.*

| Value per Pound in the Grease. | Duty per Pound. | Quantity. | Total Value. | Average Value per Pound. | Average ad valorem Duty. |
|---|---|---|---|---|---|
| *1880.* | *Cents.* | *Pounds.* | *Dollars.* | *Cents.* | *Per cent.* |
| 12 cents or less . . . | 3 | 49,412,562 | 5,538,413 | 11.2 | 26.77 |
| Over 12 cents . . . | 6 | 9,907,849 | 2,161,250 | 21.8 | 27.51 |
| *1881.* | | | | | |
| 12 cents or less . . . | 3 | 28,917,217 | 3,384,424 | 11.7 | 25.63 |
| Over 12 cents . . . | 6 | 13,468,552 | 2,653,617 | 19.7 | 30.45 |
| *1882.* | | | | | |
| 12 cents or less . . | 3 | 32,501,620 | 3,825,762 | 11.8 | 25.49 |
| Over 12 cents . . . | 6 | 14,706,555 | 2,816,937 | 19.2 | 31.32 |
| *1883.* | | | | | |
| 12 cents or less . . . | 3 | 28,477,593 | 3,436,786 | 12.1 | 24.86 |
| Over 12 cents . . . | 6 | 11,652,510 | 2,143,750 | 18.4 | 32.61 |
| *1884.* | | | | | |
| 12 cents or less . . | 2½ | 46,654,102 | 5,153,586 | 11.0 | 22.63 |
| Over 12 cents . . . | 5 | 15,870,660 | 2,680,214 | 16.9 | 29.61 |
| *1885.* | | | | | |
| 12 cents or less . . . | 2½ | 45,073,356 | 4,572,971 | 10.1 | 24.64 |
| Over 12 cents . . . | 5 | 5,708,792 | 985,478 | 17.3 | 28.96 |
| *1886.* | | | | | |
| 12 cents or less . . . | 2½ | 71,550,878 | 6,944,333 | 9.7 | 25.76 |
| Do. scoured . . . . | 7½ | 43,865 | 6,087 | 13.9 | 54.05 |
| Over 12 cents . . . | 5 | 8,121,089 | 1,393,414 | 17.2 | 29.14 |
| *1887.* | | | | | |
| 12 cents or less . . . | 2½ | 61,811,967 | 6,185,733 | 10.0 | 24.98 |
| Do. scoured . . . . | 7½ | 6,717 | 1,206 | 17.9 | 41.77 |
| Over 12 cents . . . | 5 | 19,685,714 | 3,554,823 | 18.1 | 27.69 |
| *1888.* | | | | | |
| 12 cents or less . . . | 2½ | 54,703,172 | 5,515,569 | 10.1 | 24.79 |
| Do. scoured . . . . | 7½ | 385,028 | 67,335 | 17.5 | 42.88 |
| Over 12 cents . . . | 5 | 19,618,989 | 3,506,520 | 17.9 | 27.98 |
| Do. scoured . . . . | 15 | 3,462 | 993 | 28.7 | 52.30 |
| *1889.* | | | | | |
| 12 cents or less . . . | 2½ | 75,799,718 | 7,703,743 | 10.2 | 24.60 |
| Over 12 cents . . . | 5 | 20,756,141 | 3,408,317 | 16.4 | 30.45 |
| *1890.* | | | | | |
| 12 cents or less . . . | 2½ | 61,626,657 | 6,291,320 | 10.2 | 24.49 |
| Over 12 cents . . . | 5 | 18,307,429 | 2,990,582 | 16.3 | 30.61 |
| *1891.* | | | | | |
| 12 cents or less . . . | 2½ | 26,268,357 | 2,652,321 | 10.1 | 24.76 |
| Over 12 cents . . . | 5 | 6,403,112 | 1,069,368 | 16.7 | 29.94 |
| 13 cents or less . . . | 32 % | 46,879,665 | 4,830,643 | 10.3 | 32. |
| Over 13 cents . . . | 50 % | 4,841,171 | 703,312 | 14.5 | 50. |
| Camel's hair 13 cents or less . . | 32 % | 1,478,711 | 146,461 | 9.9 | 32. |

## No. 9. — Classified Imports of Wool at Boston, New York, and Philadelphia, 1882 to 1891.

*United States Bureau of Statistics, Treasury Department.*

| Cities. | Class 1. Clothing Wool. | Class 2. Combing Wool. | Class 3. Carpet, etc., Wools. | Total. |
|---|---|---|---|---|
| **1882.** | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* |
| Boston | . . . . . | . . . . . | . . . . . | 27,111,894 |
| New York | . . . . . | . . . . . | . . . . . | 35,126,624 |
| Philadelphia | . . . . . | . . . . . | . . . . . | 2,443,062 |
| Total | | | | 64,681,580 |
| **1883.** | | | | |
| Boston | . . . . . | . . . . . | . . . . . | 31,429,249 |
| New York | . . . . . | . . . . . | . . . . . | 32,021,876 |
| Philadelphia | . . . . . | . . . . . | . . . . . | 4,076,228 |
| Total | | | | 67,527,353 |
| | Not Classified till 1884. | | | |
| **1884.** | | | | |
| Boston | 11,953,896 | 2,907,918 | 16,573,504 | 31 435,318 |
| New York | 5,300,379 | 688,425 | 31,161,307 | 37,150,111 |
| Philadelphia | 922,886 | 4,260 | 4,588.136 | 5,515,282 |
| Total | 18,177,161 | 3,600,603 | 52,322,947 | 74,100,711 |
| **1885.** | | | | |
| Boston | 6,102,492 | 2,290,197 | 19,497,612 | 27,890,301 |
| New York | 3,985,630 | 128,870 | 30,215,890 | 34,330,390 |
| Philadelphia | 431,793 | 50,622 | 5,045,422 | 5,527,837 |
| Total | 10,519,915 | 2,469,689 | 54,758,924 | 67,748,528 |
| **1886.** | | | | |
| Boston | 21,605,050 | 4,609,106 | 22,184,693 | 48,398,849 |
| New York | 15,241,178 | 892,458 | 43,847,200 | 59,980,8 .6 |
| Philadelphia | 987,918 | 1,125,011 | 12,576,922 | 14,689,851 |
| Total | 37,834,146 | 6,626,575 | 78,608,815 | 123,069,536 |
| **1887.** | | | | |
| Boston | 9,025,083 | 7,597,325 | 24,302,413 | 40,924.821 |
| New York | 5,243,858 | 1,204,984 | 49,304,046 | 55,752,888 |
| Philadelphia | 647,498 | 1,622,147 | 10,248,216 | 12,517,861 |
| Total | 14,916,439 | 10,424,456 | 83,854,675 | 109,195,570 |
| **1888.** | | | | |
| Boston | 15,862,202 | 3,896,936 | 28,936,449 | 48,695,587 |
| New York | 4,863,626 | 420,492 | 44,740,233 | 50,024,351 |
| Philadelphia | 696.853 | 1,030,773 | 11.026,559 | 12,754,185 |
| Total | 21,422,681 | 5,348,201 | 84,703,241 | 111,474,1 3 |
| **1889.** | | | | |
| Boston | 19,573,701 | 4,315,981 | 24,912,637 | 48,802,319 |
| New York | 6,797,401 | 515,858 | 46,207,633 | 53,520,892 |
| Philadelphia | 1,350,062 | 1,773,076 | 18,363,946 | 21,487,084 |
| Total | 27,721,164 | 6,604,915 | 89,484,216 | 123,810,295 |
| **1890.** | | | | |
| Boston | 11,154.247 | 5,196,059 | 29,277,193 | 45,627,499 |
| New York | 2,716,348 | 1,178,465 | 39,413,896 | 43,308,709 |
| Philadelphia | 1,621,512 | 899,649 | 11,461,395 | 13,982,556 |
| Total | 15,492,107 | 7,274,173 | 80,152,484 | 102,918,764 |
| **1891.** | | | | |
| Boston | 23,574,857 | 4,060,718 | 26,878,778 | 54,514,353 |
| New York | 4,748,593 | 675,697 | 46,402,122 | 51,826,412 |
| Philadelphia | 2.415,568 | 987.422 | 14,702,618 | 18,105,608 |
| Total | 30,739,018 | 5,723,837 | 87,983,518 | 124,446,373 |

## No. 10.–Countries of Production and of Immediate Shipment of Wools

IMPORTED INTO THE CUSTOMS DISTRICTS OF NEW YORK, BOSTON, AND PHILADELPHIA DURING THE YEAR ENDING SEPT. 30, 1891.

By quantity and class:

| Countries of Production. | Countries of Immediate Shipment. | Class 1. *Pounds.* | Class 2. *Pounds.* | Class 3. *Pounds.* | Total. *Pounds.* |
|---|---|---|---|---|---|
| Argentine Republic | Argentine Rep. | 210,047 | . . . . | 14,150,431 | 14,456,142 |
| | Belgium | 18,824 | . . . . | . . . . . | |
| | England | 6,467 | . . . . | 69,485 | |
| | France | 888 | . . . . | . . . . . | |
| Austria | Austria | 8,672 | . . . . | 382,369 | 849,692 |
| | Austro-Hungary | 832 | 14,486 | 421,113 | |
| | England | . . . . . | . . . . | 22,220 | |
| Belgium | Belgium | . . . . . | 5,142 | 13,100 | 18,242 |
| Brazil | Brazil | 214,972 | . . . . | 3,858 | 231,709 |
| | Germany | . . . . . | . . . . | 22,879 | |
| Chili | Chili | 995,329 | 833 | 1,204,799 | 2,229,994 |
| | England | 1,112 | . . . . | 27,921 | |
| China | China | . . . . . | 31,987 | 12,565,253 | 13,355,308 |
| | England | . . . . . | 7,656 | 726,630 | |
| | France | . . . . . | . . . . | 10,467 | |
| | Hongkong | . . . . . | . . . . | 13,315 | |
| Denmark | Germany | . . . . . | 381 | . . . . . | 381 |
| Iceland | England | . . . . . | . . . . | 214,327 | 214,327 |
| France | France | 18,941 | 106,862 | 1,414,639 | 1,877,560 |
| | England | . . . . . | 6,641 | 330,477 | |
| French Africa | French Africa | . . . . . | . . . . | 4,446 | 4,446 |
| Germany | Germany | 14,652 | 26,681 | 330,521 | 499,785 |
| | Austria | . . . . . | . . . . | 57,399 | |
| | England | . . . . . | 624 | 69,908 | |
| England | England | 339,354 | 2,461,133 | 2,187,961 | 5,000,548 |
| | Scotland | . . . . . | . . . . | 12,100 | |
| Scotland | Scotland | . . . . . | 5,047 | 4,781,152 | 7,768,974 |
| | England | . . . . . | 14,931 | 2,967,844 | |
| Ireland | England | . . . . . | 903,860 | . . . . . | 903,860 |
| British East Indies | British E. Indies | . . . . . | . . . . | 89,757 | 2,377,545 |
| | England | . . . . . | 13,443 | 2,201,146 | |
| | France | . . . . . | . . . . | 73,199 | |
| East Indies, not specified elsewhere | England | . . . . . | . . . . | 1,018,557 | 1,018,557 |
| British Africa | British Africa | 1,351,863 | 19,248 | 3,949 | 1,688,996 |
| | England | 155,369 | 157,321 | 1,246 | |
| British Australasia | Brit. Australasia | 8,451,727 | 29,134 | . . . . . | 27,947,690 |
| | England | 19,450,230 | . . . . | . . . . . | |
| | Scotland | 12,207 | . . . . | . . . . . | |
| | Belgium | 4,392 | . . . . | . . . . . | |
| Dutch West Indies | Dutch W. Ind. | 849 | . . . . | 14,888 | 15,737 |
| Dutch East Indies | England | . . . . . | . . . . | 100 | 100 |
| Russia on the Baltic | Russia on Baltic, | . . . . . | . . . . | 8,996,909 | 13,317,532 |
| | England | 5,872 | . . . . | 4,176,415 | |
| | France | . . . . . | . . . . | 23,114 | |
| | Russia on Black Sea | . . . . . | . . . . | 115,222 | |
| *Carried forward* | | . . . . . | . . . . | . . . | . . . . . |

Statement showing by countries of production, etc.— *Continued.*

| Countries of Production. | Countries of Immediate Shipment. | Class 1. *Pounds.* | Class 2. *Pounds.* | Class 3. *Pounds.* | Total. *Pounds.* |
|---|---|---|---|---|---|
| . . . . . | . . . . . | . . . . | . . . . | . . . . . | . . . . . |
| Russia on the Black Sea . | Russia on Black Sea . . . . . | 577 | . . . . | 12,586,735 | |
| | England . . . . | . . . . . | . . . . | 1,000,632 | 14,566,305 |
| | France . . . . . | . . . . . | . . . . | 39,963 | |
| | Russia on Baltic, | . . . . . | . . . . | 938,398 | |
| Russia, Asiatic . . | England . . . . | . . . . . | . . . . | 21,690 | |
| | Germany . . . . | . . . . . | . . . . | 16,909 | 107,778 |
| | Russia on the Baltic . . . . | . . . . . | . . . . | 69,179 | |
| Turkey in Europe . . . | Turkey in Europe . . . . . | 8,590 | 325,017 | 784,477 | 2,168,471 |
| | England . . . . | . . . . . | 278,846 | 642,419 | |
| | France . . . . . | . . . . . | . . . . | 129,122 | |
| Turkey in Asia . . . | Turkey in Asia, . . . . . | . . . . . | 20,542 | 2,774,179 | |
| | England . . . . | 12,246 | 889,733 | 8,898,533 | |
| | France . . . . . | . . . . . | . . . . | 2,522,903 | |
| | Austria . . . . | . . . . . | . . . . | 24,386 | 15,416,726 |
| | Turkey in Europe . . . . . | . . . . . | 1,367 | 169,902 | |
| | Russia on the Baltic . . . . | . . . . . | . . . . | 102,935 | |
| Asia, N.O.S. | England . . . . | 1,933 | 2,958 | 2,394,302 | |
| | France . . . . . | 10,693 | . . . . | 1,126,051 | 3,947,337 |
| | Russia on Baltic, | . . . . . | . . . . | 411,400 | |
| Spain . . . . | Spain . . . . . | . . . . . | . . . . | 28 | |
| | England . . . . | 5,064 | . . . . | . . . . . | 37,978 |
| | France . . . . . | 32,886 | . . . . | . . . . . | |
| Turkey in Africa . . | Turkey in Africa | 1,000 | . . . . | . . . . . | 11,662 |
| | England . . . . | . . . . | . . . . | 10,662 | |
| Uruguay . . . | Uruguay . . . . | 998,181 | . . . . | 10,810 | 1,008,991 |
| Italy . . . . | Italy . . . . . | . . . . . | . . . . | 200 | |
| | England . . . . | . . . . . | . . . . | 16,910 | 24,730 |
| | France . . . . . | . . . . . | . . . . | 7,620 | |
| All others, countries of production not known, | England . . . . | 239,217 | . . . . | 366,727 | |
| | Russia on Baltic, | . . . . . | . . . . | 342,717 | |
| | Turkey in Europe . . . . | . . . . . | . . . . | 57,662 | 1,007,685 |
| | Dutch West Indies . . . . | . . . . . | . . . . | 1,362 | |
| Turkey, not specified . | England . . . . | . . . . . | 19,342 | 116,815 | |
| | Germany . . . . | . . . . . | . . . . | 25,875 | 191,886 |
| | Netherlands . . | . . . . . | . . . . | 29,854 | |
| British West Indies . . . . | British West Indies . . . . | 465 | . . . . | 1,475 | 1,940 |
| Persia . . . . . | England . . . . | . . . . . | . . . . | 6,486 | 6,486 |
| Venezuela . . | Venezuela . . . . | . . . . . | . . . . | 7,364 | 7,364 |
| Nova Scotia . . | Nova Scotia . . | 100 | 62 | . . . . . | 162 |
| Switzerland . . | Switzerland . . | . . . . . | . . . . | 51,703 | 51,703 |
| Portugal . . . | England . . . . | . . . . . | . . . . | 51,229 | 51,229 |
| Servia . . . . | England . . . . | . . . . . | . . . . | 23,186 | |
| | Austria . . . . | . . . . . | . . . . | 11,434 | 105,530 |
| | Germany . . . | . . . . . | . . . . | 41,927 | |
| | Netherlands . . | . . . . . | . . . . | 28,983 | |
| India, not spec'd | England . . . . | . . . . . | . . . . | 17,073 | 17,073 |
| Colonial, " | England . . . . | 41,778 | . . . . | . . . . . | 41,778 |

Statement showing by countries of production, etc. — *Concluded.*

| Countries of Production. | Countries of Immediate Shipment. | Class 1. *Pounds.* | Class 2. *Pounds.* | Class 3. *Pounds.* | Total. *Pounds.* |
|---|---|---|---|---|---|
| . . . . . | . . . . . | . . . . . | . . . . | . . . . . | . . . . . |
| Russia, not spec. | England . . . . | . . . . . | . . . . | 177,082 | 177,082 |
| Br Possessions, all others . . | Br. Possessions, all others . . | . . . . . | . . . . | 3,372 | 3,372 |
| Colombia . . . | France . . . . . | . . . . . | 14 | . . . . . | 14 |
| Danish West Indies . . . . | Danish West Indies . . . . | . . . . . | . . . . | 150 | 150 |
| Japan . . . . . | England . . . . | . . . . . | . . . . | 3,406 | 3,406 |
| Gibraltar . . . | Gibraltar . . . | . . . . . | . . . . | 90 | 90 |
| | Total . . . . | 32,615,329 | 5,343,291 | 94,775,433 | 132,734,053 |
| Imported into | New York . . . | 5,224,824 | 577,712 | 50,495,285 | 56,297,821 |
| | Boston . . . . | 24,803,146 | 3,535,402 | 30,418,471 | 58,757,019 |
| | Philadelphia . . | 2,587,359 | 1,230,177 | 13,861,677 | 17,679,213 |
| | | 32,615,329 | 5,343,291 | 94,775,433 | 132,734,053 |

## No.11.—Wool Produced, Imported, Exported, and Retained for Consumption in the United States, 1840-1891.

*Bureau of Statistics, U. S. Treasury.*

| Year Ending June 30— | Production. | Imports. | Total production and imports. | Exports. | | | Retained for home consumption. | Per cent. of imports. |
|---|---|---|---|---|---|---|---|---|
| | | | | Domestic. | Foreign. | Total. | | |
| | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Per cent.* |
| 1840 | 35,802,114 | 9,898,740 | 45,700,854 | . . . . . | 85,528 | 85,528 | 45,615,326 | 21.7 |
| 1850 | 52,516,059 | 18,695,294 | 71,212,253 | 35,898 | . . . . . | 35,898 | 71,176,355 | 26.3 |
| 1860 | 60,264,913 | 26,282,955 | 86,547,868 | 1,055,928 | 157,064 | 1,212,972 | 85,334,896 | 30.4 |
| 1865 | 142,000,000 | 44,420,375 | 186,420,375 | 466,182 | 679,281 | 1,145,463 | 185,274,912 | 23.6 |
| 1870 | 162,000,000 | 49,230,199 | 211,230,199 | 152,892 | 1,710,053 | 1,862,945 | 209,367,254 | 23.3 |
| 1871 | 160,000,000 | 68,058,028 | 228,058,028 | 25,195 | 1,305,311 | 1,330,506 | 226,727,522 | 29.9 |
| 1872 | 150,000,000 | 126,507,409 | 276,507,409 | 140,515 | 2,343,937 | 2,484,442 | 274,022,967 | 44.9 |
| 1873 | 158,000,000 | 85,496,049 | 243,496,049 | 75,129 | 7,040,386 | 7,115,515 | 236,380,534 | 35.1 |
| 1874 | 170,000,000 | 42,939,541 | 212,939,541 | 319,600 | 6,816,157 | 7,135,757 | 205,803,784 | 20.2 |
| 1875 | 181,000,000 | 54,901,760 | 235,901,760 | 178,034 | 3,567,627 | 3,745,661 | 232,156,099 | 23.3 |
| 1876 | 192,000,000 | 44,642,836 | 236,642,836 | 104,768 | 1,518,426 | 1,623,194 | 235,019,642 | 18.9 |
| 1877 | 200,000,000 | 42,171,192 | 242,171,192 | 79,599 | 3,088,957 | 3,168,556 | 239,002,636 | 17.4 |
| 1878 | 208,250,000 | 48,449,079 | 256,699,079 | 347,854 | 5,952,221 | 6,300,075 | 250,399,004 | 18.9 |
| 1879 | 211,000,000 | 39,005,155 | 250,005,155 | 60,784 | 4,104,616 | 4,165,400 | 245,839,755 | 15.6 |
| 1880 | 232,500,000 | 128,131,747 | 360,631,747 | 191,551 | 3,648,520 | 3,840,071 | 356,791,676 | 35.5 |
| 1881 | 240,000,000 | 55,964,236 | 295,964,236 | 71,455 | 5,507,534 | 5,578,980 | 290,385,247 | 18.9 |
| 1882 | 272,000,000 | 67,861,744 | 399,861,744 | 116,179 | 3,831,836 | 3,948,015 | 335,913,729 | 20.0 |
| 1883 | 290,000,000 | 70,575,478 | 360,575,478 | 64,474 | 4,010,043 | 4,074,517 | 356,500,961 | 19.6 |
| 1884 | 300,000,000 | 78,350,651 | 378,350,651 | 10,393 | 2,304,701 | 2,315,094 | 376,035,557 | 20.7 |
| 1885 | 308,000,000 | 70,596,170 | 378,596,170 | 88,006 | 3,115,339 | 3,203,345 | 375,392,825 | 18.7 |
| 1886 | 302,000,000 | 129,084,958 | 431,084,958 | 146,423 | 6,534,426 | 6,680,849 | 424,404,109 | 29.9 |
| 1887 | 285,000,000 | 114,038,030 | 399,038,030 | 257,940 | 6,728,292 | 6,986,232 | 392,051,798 | 29.1 |
| 1888 | 269,000,000 | 113,558,753 | 382,558,753 | 22,164 | 4,359,731 | 4,381,895 | 378,176,858 | 29.7 |
| 1889 | 265,000,000 | 126,487,729 | 391,487,729 | 141,576 | 3,263,094 | 3,404,670 | 388,083,059 | 32.3 |
| 1890 | 276,000,000 | 105,431,285 | 381,431,285 | 231,042 | 3,288,467 | 3,519,509 | 377,911,776 | 27.6 |
| 1891 | 285,000,000 | 129,303,648 | 414,303,648 | 291,922 | 2,638,123 | 2,930,045 | 411,373,603 | 30.2 |

NOTE. — The data of production furnished by Department of Agriculture.

## No. 12.—Stocks of Wool on Hand in the United States, Jan. 1—1888 to 1892.

FENNO BROTHERS & CHILDS, BOSTON.

*Domestic.*

| | 1892. | 1891. | 1890. | 1889. | 1888. |
|---|---|---|---|---|---|
| Boston | 28,705,300 | 24,042,900 | 29,600,000 | 18,317,700 | 31,974,990 |
| New York | 3,728,100 | 5,008,400 | 4,502,000 | 4,476,300 | 4,490,000 |
| Philadelphia | 7,000,000 | 7,500,000 | 7,000,000 | 10,000,000 | 15,000,000 |
| Albany and Troy | 1,283,000 | 2,055,000 | 1,455,000 | 1,200,000 | 2,000,000 |
| Hartford | 2,500,000 | 1,500,000 | 2,500,000 | 3,000,000 | . . . . . |
| Providence | 750,000 | . . . . . | . . . . . | . . . . . | . . . . . |
| Western Penn. | 1,000,000 | 1,000,000 | 1,000,000 | 2,000,000 | 4,000,000 |
| Wheeling | 250,000 | 375,000 | 300,000 | 300,000 | . . . . . |
| Ohio | 5,200,000 | 2,300,000 | 3,500,000 | 1,500,000 | 8,000,000 |
| Michigan | 1,500,000 | 1,370,000 | 1,250,000 | 500,000 | 1,000,000 |
| Louisville, etc. | 260,000 | 550,000 | 450,000 | 340,000 | 450,000 |
| Chicago | 4,255,000 | 3,000,000 | 4,500,000 | 3,000,000 | 7,500,000 |
| Milwaukee | 400 000 | 500,000 | . . . . . | . . . . . | . . . . . |
| St. Louis | 7,130,000 | 5,110,000 | 6,500,000 | 2,000,000 | 5,000,000 |
| Texas | 1,005,000 | 880,000 | 1,800,000 | 500,000 | 3,000,000 |
| Territories | 500,000 | 1,000,000 | 1,500,000 | . . . . . | . . . . . |
| Oregon | 250,000 | 200,000 | 500,000 | 500,000 | 2,000,000 |
| San Francisco | 2,500,000 | 7,397,000 | 4,100,000 | 2,000,000 | 6,000,000 |
| | 68,216,400 | 63,928,300 | 70,457,000 | 49,584,000 | 90,414,000 |
| Concealed supplies | 10,000,000 | 12,000,000 | 15,000,000 | 15,000,000 | 15,000,000 |
| Total | 78,216,400 | 75,928,300 | 85,457,000 | 64,584,000 | 105,414,000 |

*Foreign.*

| | 1892. | 1891. | 1890. | 1889. | 1888. |
|---|---|---|---|---|---|
| Boston | 1,609,300 | 1,793,200 | 5,603,300 | 3,088,500 | 2,156,000 |
| New York | 11,545,566 | 5,457,600 | 6,500,000 | 8,323,800 | 6,940,530 |
| Philadelphia | 8,000,000 | 7,000,000 | 3,000,000 | 6,000,000 | . . . . . |
| Total | 21,154,866 | 14,250,800 | 15,103,300 | 17,412,300 | . . . . . |

## No. 13.—Prices of Ohio Fine, Medium, and Coarse Washed Fleece Clothing Wool in the Markets of New York and Philadelphia (1824-91).

(*Currency prices from 1862 to 1878.*)

Mauger & Avery's Annual Wool Circular.

| Year. | January. | | | April. | | | July. | | | October. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. |
| | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* |
| 1824 . . | 68 | 53 | 40 | 70 | 46 | 31 | 55 | 40 | 30 | 60 | 40 | 30 |
| 1825 . . | 60 | 43 | 32 | 60 | 42 | 33 | 50 | 41 | 32 | 50 | 42 | 36 |
| 1826 . . | 55 | 43 | 38 | 52 | 46 | 41 | 37 | 30 | 26 | 43 | 37 | 32 |
| 1827 . . | 36 | 32 | 28 | 45 | 34 | 30 | 37 | 31 | 25 | 43 | 32 | 25 |
| 1828 . . | 42 | 30 | 25 | 44 | 36 | 28 | 48 | 38 | 33 | 48 | 40 | 32 |
| 1829 . . | 54 | 45 | 35 | 45 | 35 | 32 | 46 | 36 | 32 | 37 | 30 | 27 |
| 1830 . . | 40 | 35 | 30 | 50 | 38 | 32 | 60 | 50 | 40 | 70 | 60 | 48 |
| 1831 . . | 70 | 60 | 48 | 70 | 60 | 50 | 75 | 65 | 50 | 70 | 60 | 50 |
| 1832 . . | 65 | 55 | 44 | 60 | 52 | 42 | 50 | 42 | 30 | 50 | 40 | 30 |
| 1833 . . | 55 | 41 | 33 | 63 | 53 | 38 | 61 | 54 | 40 | 65 | 55 | 45 |
| 1834 . . | 70 | 60 | 48 | 67 | 56 | 44 | 60 | 50 | 40 | 62 | 50 | 40 |
| 1835 . . | 63 | 50 | 40 | 65 | 60 | 45 | 63 | 56 | 42 | 65 | 60 | 45 |
| 1836 . . | 65 | 60 | 45 | 68 | 62 | 47 | 70 | 60 | 50 | 70 | 60 | 50 |
| 1837 . . | 72 | 63 | 48 | 68 | 56 | 46 | 52 | 52 | 36 | 49 | 40 | 31 |
| 1838 . . | 50 | 42 | 35 | 50 | 42 | 35 | 46 | 36 | 30 | 56 | 48 | 37 |
| 1839 . . | 56 | 48 | 38 | 56 | 48 | 38 | 57 | 48 | 40 | 60 | 55 | 44 |
| 1840 . . | 50 | 45 | 38 | 49 | 43 | 36 | 45 | 39 | 33 | 46 | 38 | 33 |
| 1841 . . | 52 | 45 | 35 | 53 | 46 | 37 | 50 | 44 | 34 | 48 | 42 | 33 |
| 1842 . . | 48 | 42 | 35 | 46 | 40 | 32 | 43 | 37 | 30 | 38 | 31 | 25 |
| 1843 . . | 35 | 30 | 25 | 33 | 28 | 25 | 35 | 30 | 26 | 36 | 32 | 26 |
| 1844 . . | 37 | 30 | 26 | 43 | 36 | 30 | 45 | 37 | 32 | 50 | 40 | 33 |
| 1845 . . | 47 | 40 | 31 | 45 | 38 | 32 | 40 | 36 | 30 | 38 | 35 | 28 |
| 1846 . . | 40 | 35 | 30 | 38 | 33 | 28 | 38 | 32 | 27 | 36 | 30 | 22 |
| 1847 . . | 45 | 40 | 30 | 47 | 40 | 31 | 46 | 40 | 31 | 47 | 40 | 30 |
| 1848 . . | 45 | 38 | 30 | 43 | 37 | 30 | 38 | 32 | 28 | 33 | 30 | 24 |
| 1849 . . | 33 | 30 | 23 | 40 | 36 | 30 | 40 | 35 | 28 | 42 | 36 | 30 |
| 1850 . . | 47 | 40 | 33 | 45 | 37 | 30 | 45 | 37 | 30 | 46 | 40 | 35 |
| 1851 . . | 46 | 40 | 33 | 50 | 44 | 36 | 47 | 42 | 37 | 45 | 40 | 35 |
| 1852 . . | 43 | 38 | 34 | 42 | 36 | 33 | 45 | 38 | 33 | 50 | 42 | 37 |
| 1853 . . | 58 | 56 | 50 | 62 | 56 | 50 | 60 | 53 | 48 | 55 | 50 | 48 |
| 1854 . . | 53 | 47 | 42 | 57 | 52 | 46 | 45 | 37 | 30 | 42 | 36 | 30 |
| 1855 . . | 40 | 35 | 32 | 43 | 35 | 32 | 50 | 40 | 33 | 52 | 41 | 36 |
| 1856 . . | 50 | 38 | 35 | 57 | 45 | 38 | 55 | 42 | 36 | 60 | 55 | 45 |
| 1857 . . | 58 | 50 | 42 | 60 | 56 | 45 | 56 | 50 | 40 | 38 | 30 | 25 |
| 1858 . . | 40 | 33 | 27 | 42 | 35 | 30 | 43 | 37 | 30 | 56 | 41 | 36 |
| 1859 . . | 60 | 52 | 45 | 60 | 46 | 37 | 56 | 40 | 35 | 60 | 50 | 42 |
| 1860 . . | 60 | 50 | 42 | 52 | 45 | 40 | 55 | 50 | 40 | 50 | 45 | 40 |
| 1861 . . | 45 | 40 | 37 | 45 | 37 | 32 | 38 | 30 | 22 | 47 | 48 | 50 |
| 1862 . . | 48 | 50 | 50 | 46 | 45 | 43 | 48 | 47 | 45 | 60 | 60 | 63 |
| 1863 . . | 75 | 68 | 70 | 80 | 85 | 80 | 75 | 70 | 65 | 85 | 80 | 76 |
| 1864 . . | 80 | 78 | 76 | 78 | 77 | 72 | 100 | 100 | 90 | 103 | 95 | 100 |
| 1865 . . | 102 | 100 | 96 | 80 | 80 | 75 | 75 | 73 | 65 | 75 | 75 | 65 |
| 1866 . . | 70 | 65 | 50 | 65 | 60 | 48 | 70 | 67 | 60 | 63 | 60 | 56 |
| 1867 . . | 68 | 53 | 50 | 60 | 55 | 50 | 55 | 49 | 45 | 48 | 46 | 40 |
| 1868 . . | 48 | 43 | 38 | 50 | 48 | 45 | 46 | 45 | 43 | 48 | 48 | 45 |
| 1869 . . | 50 | 50 | 48 | 50 | 50 | 48 | 48 | 48 | 47 | 48 | 48 | 46 |

**Prices of Ohio Wool.** — *Concluded.*

| Year. | January. | | | April. | | | July. | | | October. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. | Fine. | Medium. | Coarse. |
| | *Cts.* | *Cts.* | *Cts.* | *Cts* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* |
| 1870 . . | 48 | 46 | 44 | 48 | 47 | 46 | 46 | 45 | 43 | 48 | 48 | 44 |
| 1871 . . | 47 | 46 | 43 | 50 | 52 | 47 | 62 | 60 | 55 | 63 | 62 | 58 |
| 1872 . . | 70 | 72 | 66 | 80 | 80 | 76 | 72 | 70 | 65 | 66 | 60 | 57 |
| 1873 . . | 70 | 68 | 65 | 56 | 53 | 48 | 50 | 48 | 44 | 54 | 53 | 47 |
| 1874 . . | 58 | 54 | 47 | 56 | 56 | 47 | 53 | 53 | 46 | 54 | 54 | 47 |
| 1875 . . | 55 | 56 | 47 | 54 | 52 | 46 | 52 | 49 | 46 | 48 | 50 | 42 |
| 1876 . . | 48 | 52 | 42 | 46 | 49 | 40 | 38 | 35 | 31 | 45 | 40 | 33 |
| 1877 . . | 46 | 43 | 36 | 45 | 40 | 33 | 50 | 44 | 37 | 48 | 44 | 36 |
| 1878 . . | 44 | 45 | 38 | 40 | 43 | 35 | 36 | 36 | 32 | 35 | 37 | 32 |
| 1879 . . | 34 | 35 | 32 | 34 | 34 | 31 | 37 | 38 | 34 | 41 | 43 | 38 |
| 1880 . . | 50 | 55 | 48 | 55 | 60 | 52 | 46 | 48 | 42 | 46 | 48 | 42 |
| 1881 . . | 47 | 49 | 43 | 40 | 44 | 37 | 42 | 44 | 36 | 43 | 46 | 36 |
| 1882 . . | 44 | 46 | 47 | 42 | 45 | 34 | 42 | 45 | 34 | 42 | 45 | 34 |
| 1883 . . | 40 | 43 | 33 | 44 | 44 | 37 | 39 | 41 | 33 | 39 | 40 | 34 |
| 1884 . . | 40 | 40 | 34 | 38 | 38 | 34 | 35 | 34 | 30 | 35 | 34 | 30 |
| 1885 . . | 34 | 33 | 29 | 32 | 32 | 28 | 32 | 31 | 28 | 33 | 35 | 32 |
| 1886 . . | 35 | 36 | 32 | 33 | 34 | 30 | 33 | 33 | 29 | 35 | 38 | 34 |
| 1887 . . | 33 | 38 | 33 | 33 | 37 | 33 | 34 | 38 | 35 | 32 | 36 | 34 |
| 1888 . . | 31 | 35 | 33 | 31 | 34 | 33 | 29 | 33 | 31 | 31 | 34 | 31 |
| 1889 . . | 34 | 38 | 33 | 33 | 37 | 31 | 35 | 39 | 32 | 33 | 37 | 31 |
| 1890 . . | 33 | 37 | 29 | 33 | 36 | 29 | 33 | 37 | 29 | 33 | 37 | 31 |
| 1891 . . | 33 | 37 | 31 | 32 | 37 | 31 | 31 | 35 | 29 | 31 | 35 | 30 |

## No. 14.—The Boston Wool Market, 1891. (Reported by DENNY, RICE & CO.)

| | Jan. | Feb. | March. | April. | May. | June. | July. | Aug. | Sept. | Oct. | Nov. | Dec. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| OHIO, PENN., AND W. VA., | | | | | | | | | | | | |
| XXX, and Pick-Lock | 36 | 35 to 36 | 35 | 34 to 35 | 34 to 35 | 34 to 35 | 34 to 35 | 33 to 35 | 33 to 34 | 33 to 34 | 32½ to 33 | 32½ to 33 |
| XX | 33½ to 34 | 33½ to 34 | 32½ to 33 | 32 to 33 | 32 to 32½ | 31 to 32 | 31 to 32 | 31 to 32 | 30 to 31 | 30 to 31 | 30 to 31 | 30 to 31 |
| X | 31½ to 32½ | 31½ to 32½ | 31 to 32 | 31 to 32 | 30 to 31 | 30 | 30 | 30 | 29 to 30 | 29 to 30 | 28 to 29 | 28 to 29 |
| No. 1 | 37 to 38 | 37 to 38 | 37 to 38 | 37 to 38 | 36 to 37 | 36 | 36 | 36 | 35 to 36 | 35 to 36 | 35 to 36 | 35 to 36 |
| No. 2 | 34 | 34 | 33 to 34 | 33 to 34 | 33 | 33 | 33 | 33 | 33 | 33 | 33 | 32 to 33 |
| Fine Unwashed | 21 to 22½ | 21 to 22½ | 21 to 22½ | 21 to 22½ | 21 to 22 | 21 to 22 | 21 to 22 | 21 to 22 | 21 to 22 | 21 to 22 | 21 to 21½ | 20 to 21½ |
| Unmerchantable | 24 to 25 | 24 to 25 | 24 to 25 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 |
| Ohio C'b'g No. 1 (⅜ & ½) | 40 to 42 | 40 to 42 | 40 to 42 | 40 to 42 | 40 | 39 to 40 | 39 to 40 | 39 to 40 | 38 to 40 | 38 to 40 | 38 to 39 | 38 to 38½ |
| Ohio C'b'g No. 2 (¼ bld) | 37 to 38 | 37 to 38 | 37 to 38 | 37 to 38 | 37 | 36 to 37 | 35 to 36 | 35 to 36 | 35 | 35 | 35 | 35 |
| Ohio Delaine | 36 to 36½ | 37 | 36 to 37 | 36 to 37 | 35½ to 36 | 35 to 35½ | 35 to 35½ | 35 to 35½ | 35 | 35 | 34½ to 35 | 34 to 34½ |
| MICH., N. Y., AND N. E. | | | | | | | | | | | | |
| X, and above | 28½ to 30 | 28½ to 30 | 28½ to 30 | 28½ to 30 | 28 to 29 | 27 to 27½ | 27 to 27½ | 27 | 27 | 26½ to 27 | 26 to 26¼ | 26 to 27 |
| No. 1 | 35 to 36 | 36 to 37 | 36 to 37 | 36 | 35 to 36 | 34 to 35 | 34 to 35 | 34 to 35 | 34 | 34 | 34 | 33 to 34 |
| No. 2 | 34 | 34 | 34 | 33 to 34 | 33 | 33 | 33 | 33 | 32½ to 33 | 32½ to 33 | 32½ to 33 | 32 to 32½ |
| Fine Unwashed | 21 to 23 | 21 to 23 | 21 to 23 | 21 to 22½ | 20 to 21½ | 20 to 21 | 20 to 21 | 20 to 21 | 19 to 20 | 19 to 20 | 19 to 20 | 19 to 20 |
| Unmerchantable | 22 to 23 | 22 to 23 | 22 to 23 | 22 to 23 | 22 to 22½ | 22 to 22½ | 22 to 22½ | 22 to 22½ | 22 to 22½ | 22 to 22½ | 22 to 22½ | 21½ to 22 |
| Mich. C'b'g No. 1 (⅜ & ½) | 39 to 41 | 39 to 41 | 39 to 40 | 38 to 40 | 38 to 39 | 38 to 39 | 38 to 39 | 38 to 39 | 37 to 38 | 37 to 38 | 37 to 37½ | 36 to 37 |
| Mich. C'b'g No. 2 (¼ bld) | 37 to 38 | 37 to 38 | 37 to 38 | 36 to 37 | 35 to 36 | 35 to 36 | 35 to 36 | 35 to 36 | 35 | 34½ to 35 | 34½ to 35 | 33 to 35 |
| Michigan Delaine | 34 to 35 | 34 to 35½ | 34 to 35½ | 34 to 35½ | 34 to 35 | 34 to 34½ | 34 to 34½ | 33 to 34 | 33 | 32½ to 33 | 32½ to 33 | 32 to 33 |
| KY., IND., AND MO. | | | | | | | | | | | | |
| Combing, ⅜ blood | 30 to 31 | 30 to 31 | 30 | 30 | 28 to 30 | 27 to 28 | 27 to 28 | 27 to 28 | 27 | 27 | 27 to 27½ | 27 to 28 |
| " ¼ " | 27 to 28 | 27 to 28 | 27 | 27 | 26 to 27 | 26 to 27 | 26 to 27 | 26 | 26 | 26 | 25 to 26 | 25 to 27 |
| " Braid | 23 to 25 | 23 to 25 | 23 to 25 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 to 24 | 23 | 23 | 23 | 22 to 23 |
| Clothing, ⅜ blood | 29 to 30 | 29 to 30 | 28 to 29 | 28 to 29 | 28 to 29 | 27 to 28 | 27 to 28 | 26 to 27 | 26 to 27 | 26 to 27 | 26 to 27½ | 26 to 27½ |
| " ¼ " | 26 to 27 | 26 to 27 | 26 to 27 | 26 to 27 | 26 | 26 | 26 | 25 to 26 | 25 to 26 | 25 to 26 | 25 to 26 | 25 to 26 |
| " Coarse | 22 to 23 | 22 to 23 | 22 to 23 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 22 | 21 to 22 |
| TEXAS. (*Scoured basis.*) | | | | | | | | | | | | |
| Spring, fine, 12 months, | 60 to 63 | 60 to 63 | 60 to 63 | 60 to 63 | 60 to 63 | 60 to 62 | 60 to 62 | 60 to 62 | 60 to 62 | 60 to 62 | 60 | 60 |
| " " 6 to 8 mos. | 54 to 57 | 54 to 57 | 54 to 57 | 54 to 57 | 54 to 57 | 54 to 57 | 54 to 57 | 54 to 56 | 54 to 56 | 54 to 56 | 54 to 55 | 54 to 55 |
| " medium, 12 mos. | 57 to 59 | 57 to 59 | 57 to 59 | 57 to 59 | 57 to 58 | 57 to 58 | 57 to 58 | 56 to 58 | 55 to 57 | 55 to 57 | 55 to 56 | 55 to 56 |
| " med. 6 to 8 mos. | 55 to 56 | 55 to 56 | 55 to 56 | 55 to 56 | 55 | 54 to 55 | 54 to 55 | 53 to 55 | 53 to 55 | 54 to 55 | 52 to 55 | 52 to 55 |
| Fall, fine | 53 to 55 | 53 to 55 | 53 to 55 | none. | none. | none. | none. | none. | 55 | 53 to 55 | 52 to 55 | 52 to 53 |
| " medium | 50 to 55 | 50 to 55 | 50 to 55 | none. | none. | none. | none. | none. | 50 to 52 | 48 to 52 | 48 to 52 | 48 to 52 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CAL. (*Scoured basis.*) | | | | | | | | | | | | |
| Spring, Northern, free, 12 months | 58 to 62 | 58 to 62 | 58 to 62 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 57 to 58 | 57 to 58 | 57 to 58 | 55 to 57 | 55 to 57 |
| Spring, Northern, free, 6 to 8 months | 54 to 57 | 54 to 57 | 54 to 57 | 53 to 57 | 53 to 57 | 53 to 56 | 53 to 56 | 53 to 55 | 53 to 55 | 53 to 55 | 52 to 55 | 52 to 55 |
| Southern, 12 months | 56 to 58 | 56 to 58 | 56 to 58 | 56 to 58 | 56 to 58 | 56 to 57 | 56 to 57 | 55 | 55 | 55 | 54 to 55 | 54 to 55 |
| " 6 to 8 months. | 53 to 56 | 53 to 56 | 53 to 56 | 53 to 55 | 53 to 55 | 53 to 55 | 53 to 55 | 52 to 55 | 52 to 55 | 50 to 55 | 50 to 55 | 50 to 55 |
| Fall, free | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 | 48 to 52 |
| " defective | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 33 to 40 | 30 to 40 | 30 to 40 | 30 to 40 |
| OREGON. (*Scoured basis.*) | | | | | | | | | | | | |
| Eastern, No. 1 | 57 to 62 | 57 to 62 | 57 to 62 | 57 to 60 | 57 to 60 | 57 to 58 | 57 to 58 | 56 to 58 | 56 to 58 | 56 to 58 | 56 to 57 | 55 to 57 |
| " No. 2 | 55 to 60 | 55 to 60 | 55 to 60 | 55 to 58 | 55 to 57 | 55 to 56 | 55 to 56 | 53 to 55 | 53 to 55 | 53 to 55 | 53 to 54 | 53 to 54 |
| Valley, No. 1 | 57 to 62 | 57 to 62 | 57 to 62 | 57 to 60 | 57 to 60 | 57 to 58 | 57 to 58 | 56 to 58 | 56 to 58 | 56 to 58 | 56 to 57 | 55 to 57 |
| " No. 2 | 55 to 60 | 55 to 60 | 55 to 60 | 55 to 57 | 55 to 56 | 55 to 56 | 55 to 56 | 53 to 55 | 53 to 55 | 53 to 55 | 53 to 54 | 52 to 54 |
| MONTANA. (*Scoured basis.*) | | | | | | | | | | | | |
| Fine | 62 to 65 | 62 to 65 | 62 to 65 | 62 to 65 | 60 to 63 | 60 to 62 | 60 to 63 | 60 to 62 | 60 to 62 | 60 to 62 | 60 | 60 |
| Fine medium | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 57 to 58 | 57 to 58 |
| Medium | 55 to 57 | 55 to 57 | 55 to 57 | 55 to 57 | 55 to 57 | 55 to 57 | 55 to 57 | 54 to 56 | 54 to 56 | 54 to 56 | 54 to 55 | 53 to 55 |
| WYOMING AND UTAH. (*Scoured basis.*) | | | | | | | | | | | | |
| Fine | 58 to 62 | 58 to 62 | 58 to 62 | 58 to 62 | 58 to 62 | 58 to 60 | 58 to 60 | 57 to 60 | 57 to 60 | 57 to 60 | 57 to 60 | 57 to 60 |
| Fine medium | 57 to 60 | 57 to 60 | 57 to 60 | 57 to 60 | 57 to 60 | 57 to 59 | 57 to 59 | 57 to 58 | 57 to 58 | 57 to 58 | 56 to 57 | 56 to 57 |
| Medium | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 53 to 55 | 53 to 55 | 53 to 55 | 53 to 54 | 52 to 54 |
| COL. AND NEW MEXICO. | | | | | | | | | | | | |
| Improved | 18 to 24 | 18 to 24 | 18 to 24 | 18 to 24 | 18 to 23 | 18 to 23 | 18 to 23 | 18 to 23 | 18 to 23 | 18 to 23 | 18 to 22 | 18 to 22 |
| Coarse and carpet | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 14 to 16 | 13 to 16 |
| PULLED. *Scoured basis.* | | | | | | | | | | | | |
| Extra | 62 to 65 | 63 to 67 | 63 to 67 | 63 to 66 | 63 to 65 | 62 to 65 | 60 to 65 | 60 to 65 | 60 to 65 | 60 to 63 | 60 to 63 | 60 to 63 |
| A. Super | 56 to 60 | 57 to 60 | 57 to 60 | 55 to 60 | 55 to 60 | 55 to 60 | 50 to 52 | 50 to 52 | 50 to 53 | 50 to 53 | 50 to 53 | 50 to 53 |
| B. Super | 45 to 50 | 45 to 50 | 45 to 50 | 43 to 48 | 43 to 48 | 42 to 48 | 43 to 48 | 42 to 47 | 42 to 47 | 42 to 46 | 42 to 46 | 42 to 46 |
| No. 1 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 | 25 to 30 |
| Combing | 42 to 47 | 42 to 47 | 42 to 47 | 42 to 47 | 42 to 45 | 42 to 45 | nom'l. | no m'l. | 37 to 42 | 40 to 42 | 40 to 42 | 40 to 43 |
| Fine Combing | 55 to 60 | 55 to 60 | 55 to 60 | 55 to 60 | 55 to 60 | 55 to 60 | nom'l. | no m'l. | nom'l. | nom'l. | nom'l. | 50 to 52 |
| California, Extra | 60 to 65 | 62 to 67 | 62 to 67 | 60 to 66 | 60 to 65 | 60 to 65 | 60 to 65 | 60 to 65 | 60 to 65 | 60 to 63 | 60 to 63 | 60 to 63 |
| Western, Extra | 58 to 60 | 58 to 62 | 58 to 62 | 58 to 60 | 58 to 60 | 58 to 60 | 58 to 60 | 57 to 60 | 55 to 58 | 55 to 58 | 55 to 58 | 55 to 58 |
| " Super | 42 to 55 | 42 to 55 | 42 to 55 | 40 to 55 | 40 to 55 | 40 to 55 | 40 to 43 | 40 to 43 | 40 to 42 | 40 to 42 | 40 to 42 | 40 to 42 |
| " Low | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 | 20 to 25 |

## No. 15. — Carpet Wools. Average Prices at Boston on January 1, 1879 to 1892.

GEO. WM. BOND & CO.'S ANNUAL WOOL CIRCULARS.

| | 1879. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. | 1891. | 1892. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* | *Cts.* |
| Cordova and Santiago | 14 to 15 | 17 to 18 | 20 to 21 | 18 to 19 | 18 to 19 | 16 to 17 | 14 to 14½ | 13½to14 | 15 to 16 | 14½ to 15 | 15 to 15½ | 15 to 15½ | 16¼to16½ | 15½ to 16 |
| Criolla and Corrientes | 12 " 13 | 15 " 16 | 17 " 18 | 16 " 17 | 15 " 17 | 14 " 15 | 12 " 13 | 12½" 13 | 13½" 14 | 13 " 14 | none. | none. | none. | none. |
| Valparaiso | 14 " 15 | 17 " 18 | 18 " 19 | 18 " 19 | 18 " 19 | 15 " 16 | 13 " 14 | 13 " 13½ | 14½ " 15 | 14 " 14½ | 14 to 15 | 14½ to 15 | 15½ to 16 | 14½ to 15 |
| Syrian, unwashed, | 14 " 16 | 17 " 18 | 17 " 18 | 15 " 17 | 16 " 17 | 14 " 16 | 12 " 14 | 13 " 13½ | 14 "14½ | 13 " 13½ | 12½ " 13 | 12 " 13 | 12½ " 13 | 12 to 12½ |
| " washed | 20 " 25 | 25 " 30 | 25 " 30 | 25 " 28 | 25 " 28 | 23 " 25 | 18 " 20 | 17 " 18 | 18 " 20 | 20 " 22 | 22 " 23 | 23 " 25 | 22 " 23 | 20 " 22 |
| Smyrna, washed | 20 " 25 | 25 " 28 | 25 " 30 | 20 " 25 | 25 " 27 | 21 " 23 | 16 " 20 | 17 " 20 | 18 " 22 | 20 " 23 | 22 " 26 | 23 " 27 | 25 " 30 | 18 " 25 |
| " unwashed, | 14 " 16 | 16 " 18 | 17 " 18 | 15 " 17 | 15 " 17 | 14 " 15 | 12 "14½ | 12½" 17 | 14 " 18 | 13 " 15 | 12½ " 15 | 12 " 15 | 14 " 17 | 12 " 15 |
| " limed white, | 11 " 14 | . . . . | 12 " 20 | 19 " 22 | 18 " 19 | 17 " 19 | 10 " 15 | 13 " 16½ | 13 " 17 | 14 " 15 | 15 " 17 | 12 " 15 | 13 " 17 | 10 " 15 |
| Donskoi Combing, | . . . . | . . . . | . . . . | . . . . | . . . . | 25 " 28 | 22 " 24 | 22 " 24 | 26 " 30 | 24 " 25 | 26 " 28 | 24 " 26 | 25 " 28 | 19 " 20[1] |
| " Carding | . . . . | . . . . | . . . . | . . . . | . . . . | 21 " 23 | 18 " 21 | 19 " 20 | 23 " 24 | 20 " 22 | 22 " 23 | 20 " 22 | 22 " 24 | 18 " 19[2] |
| " unwashed, | . . . . | . . . . | . . . . | . . . . | . . . . | 13 " 14 | 12 "12½ | 11 " 12 | none. | none. | 12 " 13 | none. | 13 " 16 | 12 " 13 |
| All Black and Gray at relative value, | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . |
| Persian, washed | . . . . | . . . . | . . . . | . . . . | . . . . | 20 " 25 | 18 " 22 | 16 " 17 | 18 to 20 | 20 to 22 | 25 " 26 | 20 to 25 | 23 " 25 | 25 " 26 |
| " unwashed, | . . . . | . . . . | . . . . | . . . . | . . . . | 15 " 16 | 12 " 14 | 13 " 13½ | 14 " 14½ | 13 " 13½ | 13½ "14½ | 12 " 13 | 14 "14½ | 13 " 14 |
| Highland Laid, unwashed | . . . . | . . . . | . . . . | . . . . | . . . . | 12 " 13 | 11 " 12 | 12 " 13 | 12 " 13 | none. | 11 " 12 | none. | none. | none. |
| Ditto, White | . . . . | . . . . | . . . . | . . . . | . . . . | 15 " 18 | 14 " 15 | 16 " 17 | 16 " 17 | none. | 16 " 17 | 16 to 17 | 17 to 18 | 17 to 18 |

[1] Washed, unassorted.
[2] Autumn.

} Impossible to make comparative quotations, because of change in character of importations to meet the requirements of the Tariff of 1890.

## No. 16.—Consumption of Foreign and Domestic Mohair in the United States.

*McNaughtan Co., Boston and New York.*

| | Foreign. | Domestic. | Total. |
|---|---|---|---|
| | *Lbs.* | *Lbs.* | *Lbs.* |
| 1886 | 1,915,694 | 355,373 | 2,271,067 |
| 1887 | 1,299,726 | 534,543 | 1,834,269 |
| 1888 | 1,482,238 | 621,858 | 2,104,096 |
| 1889 | 1,720,432 | 685,106 | 2,405,538 |
| 1890 | 1,785,173 | 361,846 | 2,147,019 |
| 1891 | 1,615,789 | 423,260 | 2,039,049 |

Importations into the United States.

**1886.**

| | Weight. | Value. | Average Value per Lb. |
|---|---|---|---|
| | *Lbs.* | | *Cents.* |
| New York | 355,029 | $183,408 | 28 |
| Boston | 504,194 | 140,636 | 27 9-10 |
| Philadelphia | 640,179 | 155,086 | 24½ |
| Totals | 1,499,402 | $479,130 | 26⅔ |

**1887.**

| | Weight. | Value. | Average Value per Lb. |
|---|---|---|---|
| | *Lbs.* | | *Cents.* |
| New York | 405,361 | $97,286 | 23 5-6 |
| Boston | 313,961 | 94,484 | 29½ |
| Philadelphia | 123,205 | 34,696 | 28 1-6 |
| Totals | 842,527 | $224,466 | 26⅝ |

**1891.**

| | Weight. | Value. | Average Value per Lb. |
|---|---|---|---|
| | *Lbs.* | | *Cents.* |
| New York | 341,032 | $78,535 | 23 |
| Boston | 896,396 | 231,000 | 25 2-5 |
| Philadelphia | 443,171 | 129,157 | 29 |
| Totals | 1,680,599 | $438,692 | 26 |

## No. 17.—Imports from Bradford.

VALUE OF DECLARED EXPORTS FROM BRADFORD TO THE UNITED STATES, 1880 TO 1890, — YEAR ENDING SEPTEMBER 30.
REPORTS OF HON. JOHN A. TIBBITS, U. S. CONSUL.

| ARTICLES. | 1880. | 1881. | 1882. | 1883. | 1884. | 1885. | 1886. | 1887. | 1888. | 1889. | 1890. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* |
| Camel's Hair Tops . . . | 904 | 1,501 | 628 | 59,732 | 72,153 | 222 520 | 174,390 | 227,468 | 219,757 | 333,003 | 446,275 |
| Card Clothing . . . . . | 3,527 | 13,657 | 34,950 | 25,120 | 24,112 | 22,096 | 26,208 | 72,716 | 59.199 | 80,873 | 65,960 |
| Carpets and Rugs . . . . | 344,862 | 172,721 | 176,699 | 272,686 | 273,776 | 300.686 | 339,564 | 275,760 | 337,431 | 350.159 | 303,037 |
| Cotton Goods . . . . . | . . . . | . . . | . . . | 51,663 | 148,398 | 159,825 | 158,311 | 233,729 | 387,373 | 359,864 | 169,189 |
| Cow and Calf Hair . . . | 1,049 | 11,202 | 1,953 | 1,191 | . . . . . | 22,422 | 8,264 | 10,501 | 31,387 | 64,716 | 65,891 |
| Hair Cloths . . . . . | . . . . | . . . . | 33,394 | 120,709 | 41,203 | 45,989 | 53,154 | 30,598 | 17,900 | 18,807 | 12,127 |
| Hemp Bagging . . . . . | . . . . | . . . . | . . . . | . . . . | 4,293 | 37,651 | 43,411 | 43,798 | 14,298 | 720 | 394 |
| Machinery . . . . . | 375,577 | 168,145 | 118,543 | 207,298 | 473,578 | 435,296 | 443,524 | 437,621 | 278,244 | 474,110 | 468,796 |
| Mohair Goat's Hair . . . | . . . . | 5,082 | 34,874 | 28,191 | 181,545 | 56,054 | 78,638 | 96,284 | 44,132 | 128,755 | 223,071 |
| Noils . . . . . | 36,176 | 10,805 | 65,432 | 39,451 | 25,937 | 19,874 | 120,347 | 140,948 | 55,209 | 166,301 | 114,042 |
| Shawls, etc. . . . . | 22,009 | 39.418 | 34,250 | 11,450 | 24,042 | 26,406 | 21,927 | 13,203 | 6,660 | 12,513 | 16,441 |
| Shoddy . . . . . | 7,354 | 1,014 | . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | 1,015 | 29,195 | 7,724 |
| Silk, Silk Seals, Plushes, etc. . . . . | 82,298 | 76,512 | 51,191 | 54,188 | 442,961 | 687,519 | 1,212,880 | 1,510,585 | 2,699,887 | 1,819,920 | 2,244.311 |
| Silk Waste . . . . . | . . . . | . . . | . . . | 37,372 | 21,461 | 88,112 | 69,184 | 36,623 | 21,916 | 18,312 | 19,590 |
| Stuff Goods . . . . . | 6,558,302 | 5,744,162 | 6,178,844 | 6,239,074 | 6,146.284 | 5,456,946 | 6,927,715 | 6,695,060 | 6,712,593 | 7,785,879 | 10,601,794 |
| Tapestry Damasks, etc. . | . . . . | . . . | 11,916 | 13,330 | 21,784 | 15,799 | 21,364 | 19,224 | 25,493 | 14,273 | 20,357 |
| Waste (Worsted) . . . . | 43,861 | 104,607 | 204,522 | 386,500 | 139,765 | 134,948 | 333,678 | 541,007 | 402,264 | 1,231,272 | 445,152 |
| Wool . . . . . | 1,379 727 | 1,089,909 | 188,289 | 886,988 | 1,521,657 | 1,612,947 | 1,776,854 | 1,347,191 | 959,908 | 1,291,363 | 1,338,061 |
| Woollen Goods . . . . . | 168,834 | 185,208 | 154,785 | 245,953 | 204,228 | 181,748 | 295,502 | 432,357 | 505,923 | 265,186 | 271,775 |
| Worsted Coatings . . . . | 234,786 | 166,303 | 579,266 | 1,603,011 | 2,669,230 | 3,012,100 | 4,137,525 | 3,324,977 | 5,172,551 | 6,566,164 | 5,310,107 |
| Yarns (Worsted) . . . . | | | | 312,675 | . . . . . | 584,761 | 1,626,453 | 590,526 | 661,572 | 758,824 | 914,123 |
| Yarns (Mohair) . . . . | 187,788 | 96,421 | 112,132 | . . . . . | 64.811 | 145,600 | 136.709 | 114,069 | 130,549 | 42,805 | 174,779 |
| Yarns (Other) . . . . | | | | . . . . . | 332,214 | 101,569 | 118,095 | 120,318 | 115,970 | 147,390 | 120,453 |
| | 9,447,054 | 7,886,667 | 7,981,668 | 10,596,182 | 12,833,432 | 13,370,850 | 18,123,692 | 16,314,563 | 18,861,231 | 21,960,404 | 23,353,449 |

NOTE.—Government rate of exchange, $4.8665 = 1 pound sterling.

**No. 18.—Comparative Statement of the Exports from Bradford, England, to the United States, of the Principal Textile Fabrics and Worsted and Mohair Yarns.**

REPORTS OF UNITED STATES CONSUL JOHN H. TIBBITS.

| MONTHS. | Stuffs. | | Worsted Coatings. | | Woolen Goods. | | Carpets and Rugs. | | Silks, Seals, and Plushes. | | Cotton Goods. | | Worsted and Mohair Yarns. | | Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. | 1890. | 1889. |
| | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ | £ |
| October | 89,612 | 135,016 | 54,733 | 148,921 | 2,030 | 2,196 | 947 | 3,769 | 1,208 | 27,403 | 1,518 | 2,349 | 1,655 | 14,245 | 150,703 | 333,899 |
| November | 51,749 | 149,982 | 24,775 | 122,151 | 572 | 2,884 | 987 | 3,015 | 8,251 | 40,018 | 1,902 | 4,181 | 1,538 | 15,665 | 89,774 | 337,896 |
| December | 81,556 | 204,963 | 28,214 | 101,401 | 1,581 | 3,745 | 1,054 | 2,261 | 5,289 | 28,364 | 3,665 | 3,408 | 3,341 | 12,940 | 124,700 | 357,082 |
| | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. | 1891. | 1890. |
| January | 78,561 | 208,539 | 28,240 | 72,635 | 1,545 | 1,551 | 1,789 | 5,492 | 6,306 | 25,218 | 5,088 | 3,542 | 3,880 | 8,903 | 125,409 | 325,880 |
| February | 72,117 | 193,598 | 23,865 | 55,216 | 1,364 | 2,011 | 4,083 | 10,788 | 7,215 | 22,818 | 10,136 | 3,102 | 3,802 | 5,166 | 122,582 | 292,699 |
| March | 74,815 | 142,041 | 34,930 | 37,497 | 2,472 | 2,813 | 3,912 | 3,122 | 2,607 | 24,624 | 6,690 | 3,034 | 2,929 | 7,426 | 128,355 | 220,557 |
| April | 56,166 | 129,145 | 39,367 | 80,669 | 3,433 | 5,168 | 995 | 4,572 | 1,661 | 34,970 | 6,084 | 3,258 | 5,144 | 11,290 | 112,850 | 269,072 |
| May | 66,456 | 180,359 | 42,846 | 87,608 | 3,476 | 8,156 | 627 | 1,825 | 1,868 | 62,137 | 4,465 | 2,727 | 3,899 | 16,393 | 123,637 | 359,205 |
| June | 110,324 | 250,597 | 47,690 | 79,240 | 2,737 | 9,550 | 691 | 3,844 | 2,233 | 77,982 | 5,605 | 4,166 | 3,103 | 24,340 | 172,383 | 449,718 |
| July | 95,260 | 203,706 | 56,140 | 76,993 | 2,112 | 8,003 | 4,541 | 7,475 | 7,063 | 54,225 | 6,635 | 1,093 | 4,198 | 29,826 | 175,949 | 381,321 |
| August | 88,828 | 107,245 | 52,505 | 81,649 | 1,717 | 3,925 | 2,802 | 7,992 | 2,080 | 29,592 | 7,225 | 1,845 | 4,369 | 20,319 | 159,526 | 252,567 |
| September | 92,463 | 273,334 | 85,120 | 147,173 | 1,341 | 5,843 | 1,958 | 8,115 | 2,139 | 33,825 | 8,063 | 2,060 | 3,770 | 21,325 | 194,857 | 491,675 |
| Total, 12 months | 957,907 | 2,178,524 | 518,425 | 1,091,153 | 24,380 | 55,845 | 24,386 | 62,270 | 47,920 | 461,176 | 67,076 | 34,765 | 41,628 | 187,838 | 1,681,725 | 4,071,571 |

## No. 19.—Imports of Wool Manufactures entered for Consumption, 1867-91.

| Years. | No. 19. Belts or Felts. For Printing Machines. | | | No. 20. Blankets. | | | No. 21. Bunting. | | | No. 22. Carpets of all Kinds. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. |
| | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Sqr. yds.* | *Dollars.* | *Dollars.* | *Sqr. yds.* | *Dollars.* | *Dollars.* |
| 1867 . . | 130,755 | 140,368 | 75,280 | 948,349 | 280,299 | 209,004 | . . . . . | . . . . . | . . . . . | 833,867 | 3,743,125 | 2,002,010 |
| 1868 . . | 91,882 | 92,465 | 50,739 | 55,006 | 29,260 | 25,228 | 38,858 | 12,565 | 10,926 | 2,008,421 | 3,516,469 | 2,224,875 |
| 1869 . . | 102,593 | 97,221 | 54,546 | 19,228 | 12,174 | 10,934 | 43,038 | 9,429 | 11,908 | 2,231,788 | 4,085,558 | 2,659,379 |
| 1870 . . | 101,045 | 95,801 | 53,739 | 1,907 | 1,320 | 1,124 | 12,161 | 2,684 | 3,372 | 3,648,469 | 4,129,207 | 2,675,996 |
| 1871 . . | 100,928 | 95,572 | 53,636 | 24,280 | 19,427 | 17,293 | 17,200 | 4,167 | 4,898 | 4,645,331 | 4,932,089 | 3,320,284 |
| 1872 . . | 115,080 | 114,348 | 63,038 | 33,098 | 28,613 | 24,874 | 24,897 | 7,043 | 7,445 | 4,797,579 | 5,514,279 | 3,535,691 |
| 1873 . . | 135,746 | 147,589 | 72,235 | 7,375 | 10,373 | 6,367 | 16,464 | 5,223 | 4,609 | 4,083,062 | 4,948,335 | 2,790,293 |
| 1874 . . | 129,261 | 134,883 | 65,755 | 5,665 | 5,391 | 3,865 | 12,896 | 3,672 | 3,478 | 3,232,256 | 3,948,176 | 2,224,389 |
| 1875 . . | 126,410 | 126,394 | 63,883 | 9,993 | 10,875 | 8,451 | 6,698 | 1,862 | 1,867 | 2,335,581 | 2,928,503 | 1,653,370 |
| 1876 . . | 97,284 | 106,249 | 56,644 | 8,488 | 5,598 | 5,034 | 10,840 | 2,646 | 3,094 | 1,139,251 | 1,689,910 | 1,001,627 |
| 1877 . . | 97,439 | 90,566 | 51,186 | 11,907 | 6,441 | 5,781 | 8,946 | 2,159 | 2,545 | 660,461 | 1,050,057 | 617,229 |
| 1878 . . | 103,205 | 93,839 | 53,485 | 1,187 | 838 | 695 | 2,066 | 425 | 562 | 332,495 | 654,224 | 363,691 |
| 1879 . . | 103,110 | 90,696 | 52,366 | 2,417 | 1,454 | 1,234 | 818 | 198 | 233 | 234,170 | 595,242 | 318,333 |
| 1880 . . | 183,064 | 144,872 | 87,318 | 2,001 | 1,239 | 1,090 | 585 | 136 | 165 | 1,121,596 | 1,313,352 | 838,805 |
| 1881 . . | 145,239 | 123,065 | 72,121 | 2,135 | 1,955 | 1,492 | 60 | 28 | 22 | 867,865 | 1,400,063 | 817,068 |
| 1882 . . | 141,772 | 127,969 | 73,144 | 13,089 | 8,877 | 6,865 | 528 | 110 | 144 | 719,126 | 1,257,234 | 672,117 |
| 1883 . . | 151,255 | 139,749 | 79,163 | 4,627 | 2,885 | 2,486 | 106 | 39 | 35 | 737,985 | 1,225,156 | 659,114 |
| 1884 . . | 159,029 | 150,211 | 76,869 | 100,174 | 119,008 | 82,226 | . . . . . | . . . . . | . . . . . | 679,708 | 1,517,081 | 736,040 |
| 1885 . . | 151,904 | 139,607 | 72,263 | 6,186 | 2,869 | 1,937 | 13 | 8 | 4 | 688,893 | 1,173,252 | 575,665 |
| 1886 . . | 144,412 | 127,956 | 67,269 | 13,657 | 6,558 | 4,544 | 220 | 52 | 40 | 824,565 | 1,329,341 | 659,875 |
| 1887 . . | 191,144 | 167,166 | 88,379 | 7,570 | 3,887 | 2,785 | 242 | 53 | 43 | 735,079 | 1,472,656 | 701,549 |
| 1888 . . | 181,260 | 158,855 | 83,909 | 15,599 | 7,235 | 5,049 | 6 | 4 | 2 | 723,728 | 1,371,399 | 651,386 |
| 1889 . . | 211,614 | 182,837 | 97,174 | 26,634 | 16,934 | 11,810 | 14 | 13 | 6 | 635,029 | 1,478,134 | 684,512 |
| 1890 . . | 219,876 | 196,000 | 102,775 | 19,522 | 9,551 | 6,795 | 2 | 1 | 1 | 593,010 | 1,759,508 | 790,754 |
| 1891 . . | 119,822 | 118,184 | 80,654 | 39,860 | 26,492 | 21,983 | 5 | 6 | 3 | 601,827 | 1,564,890 | 829,064 |

## Imports of Wool Manufactures, 1867-91. — *Continued.*

| Years. | No. 23. Clothing. | | | No. 24. Cloths. | | | No. 25. Flannels. | | |
|---|---|---|---|---|---|---|---|---|---|
| | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. |
| | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* |
| 1867 | 102,721 | 206,980 | 116,067 | 8,883,527 | 10,545,096 | 6,500,095 | 104,393 | 316,273 | 164,005 |
| 1868 | 420,932 | 1,546,307 | 827,989 | 4,523,376 | 6,883,957 | 4,602,678 | 24,713 | 19,699 | 13,383 |
| 1869 | 964,804 | 1,864,177 | 1,227,935 | 4,335,371 | 6,222,924 | 4,332,739 | 10,628 | 19,058 | 11,395 |
| 1870 | 535,476 | 1,995,879 | 1,065,995 | 4,374,094 | 6,412,503 | 4,430,437 | 9,929 | 12,004 | 8,934 |
| 1871 | 617,456 | 2,249,600 | 1,208,568 | 6,429,297 | 9,187,365 | 6,430,226 | 6,021 | 7,120 | 5,075 |
| 1872 | 188,320 | 841,420 | 430,728 | 8,958,512 | 12,887,288 | 8,989,807 | 5,215 | 7,338 | 4,971 |
| 1873 | 187,335 | 899,573 | 409,060 | 11,021,905 | 16,635,680 | 10,217,402 | 17,778 | 27,587 | 16,434 |
| 1874 | 210,817 | 869,845 | 408,012 | 8,928,285 | 13,598,446 | 8,301,243 | 13,032 | 26,158 | 14,070 |
| 1875 | 209,548 | 809,019 | 392,335 | 7,527,789 | 11,696,091 | 7,163,119 | 11,958 | 22,247 | 12,299 |
| 1876 | 255,646 | 815,260 | 453,902 | 5,765,800 | 8,904,434 | 5,980,211 | 1,567 | 1,852 | 1,376 |
| 1877 | 166,099 | 528,953 | 294,630 | 3,864,720 | 5,737,571 | 3,940,356 | 1,533 | 2,105 | 1,495 |
| 1878 | 205,898 | 691,251 | 379,449 | 4,005,773 | 4,657,782 | 3,983,087 | 1,468 | 2,696 | 1,651 |
| 1879 | 214,883 | 613,992 | 353,038 | 4,054,199 | 5,623,806 | 3,995,432 | 12,307 | 8,427 | 7,289 |
| 1880 | 258,943 | 779,006 | 441,074 | 6,362,235 | 8,415,215 | 6,126,443 | 3,218 | 3,083 | 2,435 |
| 1881 | 367,415 | 1,008,210 | 586,992 | 7,056,921 | 9,376,038 | 6,810,074 | 25,456 | 17,629 | 16,241 |
| 1882 | 522,175 | 1,159,867 | 725,034 | 8,053,892 | 10,487,060 | 7,697,417 | 16,389 | 14,424 | 11,447 |
| 1883 | 712,364 | 1,427,457 | 927,165 | 8,220,025 | 10,806,324 | 7,892,226 | 141,545 | 178,545 | 132,307 |
| 1884 | 1,368,814 | 2,368,259 | 1,493,329 | 10,629,962 | 13,216,658 | 8,995,001 | 270,991 | 305,825 | 206,532 |
| 1885 | 1,236,988 | 1,803,701 | 1,226,610 | 8,014,205 | 10,080,981 | 6,826,672 | 77,767 | 67,123 | 47,531 |
| 1886 | 858,887 | 1,422,660 | 909,248 | 7,981,016 | 9,464,358 | 6,563,415 | 50,460 | 47,903 | 34,589 |
| 1887 | 806,546 | 1,461,243 | 896,472 | 8,807,263 | 10,022,371 | 7,055,825 | 219,334 | 185,203 | 129,674 |
| 1888 | 707,347 | 1,400,761 | 820,376 | 9,817,413 | 10,851,416 | 7,723,012 | 900,851 | 659,441 | 460,178 |
| 1889 | 903,662 | 1,914,200 | 1,103,085 | 8,607,231 | 9,257,732 | 6,659,385 | 1,411,738 | 1,136,659 | 795,870 |
| 1890 | 809,061 | 1,800,347 | 1,010,134 | 16,380,128 | 15,567,244 | 11,702,133 | 1,368,479 | 1,245,262 | 854,813 |
| 1891 | 984,358 | 4,833,488 | 3,408,579 | 12,664,147 | 12,563,738 | 10,537,969 | 419,265 | 401,607 | 295,293 |

## Imports of Wool Manufactures, 1867-91.— *Continued.*

| Years. | No. 26. Dress Goods. | | | | | | | | | Total. | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Part wool or worsted, not exceeding 4 oz. per sq. yd. | Values. | Duties. | All wool or worsted, not exceeding 4 oz. per sq. yd. | Values. | Duties. | Weighing over 4 ozs. per sqr. yd. | Values. | Duties. | Values. | Duties. |
| | *Sqr. Yds.* | *Dollars.* | *Dollars.* | *Sqr. Yds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* |
| 1867 . . . . | 68,451,530 | 20,218,259 | 9,988,359 | . . . . . | . . . . . | . . . . . | 110,873 | 138,376 | 103,868 | 20,356,635 | 10,092,227 |
| 1868 . . . . | 63,963,306 | 15,259,519 | 10,358,135 | . . . . . | . . . . . | . . . . . | 864,153 | 1,608,843 | 995,171 | 16,868,362 | 11,353,306 |
| 1869 . . . . | 64,602,027 | 16,059,426 | 10,685,145 | . . . . . | . . . . . | . . . . . | 1,220,510 | 2,221,064 | 1,387,627 | 18,280,490 | 12,072,772 |
| 1870 . . . . | 63,031,939 | 15,524,863 | 10,432,529 | . . . . . | . . . . . | . . . . . | 1,233,365 | 2,520,119 | 1,498,724 | 18,044,982 | 11,931,253 |
| 1871 . . . . | 72,714,174 | 17,879,233 | 11,913,058 | . . . . . | . . . . . | . . . . . | 2,290,253 | 3,772,190 | 2,465,393 | 21,651,423 | 14,378.451 |
| 1872 . . . . | 71,454,207 | 19,591,144 | 12,713,060 | . . . . . | . . . . . | . . . . . | 2,744,760 | 4,480,688 | 2,940,621 | 24,071,832 | 15,653,681 |
| 1873 . . . . | 69.608,933 | 20,076,437 | 11,699,017 | . . . . . | . . . . . | . . . . . | 1,711,987 | 3,043,005 | 1,733,079 | 23,119,433 | 13,432,096 |
| 1874 . . . . | 69,443,594 | 20,476,366 | 11,902,134 | . . . . . | . . . . . | . . . . . | 1,137,814 | 1,887,393 | 1,106,545 | 22,363.759 | 13,008,679 |
| 1875 . . . . | 73.536,000 | 20,154,341 | 12,153,076 | . . . . . | . . . . . | . . . . . | 1,234,825 | 2,175,677 | 1,263,044 | 22,330,018 | 13,416,120 |
| 1876 . . . . | 56,219,421 | 14,817,439 | 9,750,944 | . . . . . | . . . . . | . . . . . | 1,129,155 | 1,737,661 | 1,170,105 | 16,555,100 | 10,921,049 |
| 1877 . . . . | 50,247,717 | 12,898,076 | 8,627,738 | . . . . . | . . . . . | . . . . . | 749,536 | 1,213,767 | 799,566 | 14,111,843 | 9,427,304 |
| 1878 . . . . | 50,295,594 | 12,473,621 | 8,383,168 | . . . . . | . . . . . | . . . . . | 1,014,341 | 1,690,509 | 1,098,849 | 14.164,130 | 9,482,017 |
| 1879 . . . . | 51,570,505 | 12,810,107 | 8,625,362 | . . . . . | . . . . . | . . . . . | 959,523 | 1,555,148 | 1,024,063 | 14,365,255 | 9,650,025 |
| 1880 . . . . | 64,043,782 | 14,852,843 | 10,190,741 | . . . . . | . . . . . | . . . . . | 1,108,820 | 1,899,225 | 1,219,138 | 16,752,068 | 11,409,879 |
| 1881 . . . . | 57,926,108 | 13,952,721 | 9,459,631 | . . . . . | . . . . . | . . . . . | 1,14 ,021 | 2,008,345 | 1,274,431 | 15,961,066 | 10,734 062 |
| 1882 . . . . | 67,282.415 | 16,241,150 | 10,983,966 | . . . . . | . . . . . | . . . . . | 1,872,656 | 2,829,667 | 1,926,712 | 19,070,817 | 12,910,678 |
| 1883 . . . . | 87,114,520 | 19,789,123 | 13,601,675 | . . . . . | . . . . . | . . . . . | 1,914.088 | 2,829,983 | 1,947,538 | 22,619,106 | 15,549,213 |
| 1884 . . . . | 30,097.587 | 5,708,655 | 3,749,904 | 26,023,603 | 6,649,295 | 5,001,842 | 2,168,522 | 2,991,147 | 1,955,442 | 15,349,097 | 10,707,188 |
| 1885 . . . . | 27,288,709 | 5,034,197 | 3,306,313 | 27,000,379 | 6,479,491 | 5,021,831 | 2,025,680 | 2,684,299 | 1,782,708 | 14,197,987 | 10,110,851 |
| 1886 . . . . | 33,505,580 | 6,573,136 | 4,266,299 | 25,200,570 | 5.377,092 | 4,418,888 | 2,430,020 | 3,021,049 | 2,058,927 | 14 971,278 | 10,744,114 |
| 1887 . . . . | 36,630,272 | 7,657,371 | 4,883,763 | 31,136,149 | 6,522,569 | 5,411,281 | 2,560,716 | 3,019,201 | 2,103,931 | 17,199,141 | 12,398,975 |
| 1888 . . . . | 37,923,579 | 7,849,945 | 5,018,385 | 38,323,471 | 7,886,013 | 6,603,518 | 2,603,653 | 3,006,535 | 2,113.893 | 18,742,493 | 13,735,796 |
| 1889 . . . . | 44,549,136 | 9,288,428 | 5,960,810 | 40,776,262 | 8,110,010 | 6,913,868 | 2,232,037 | 2,394,815 | 1,739,139 | 19,793,253 | 14,613,817 |
| 1890 . . . . | 58,027,715 | 11,629,053 | 7,513,989 | 41,427,446 | 8,393,149 | 7,085,730 | 2,379.408 | 2,646,091 | 1.891,229 | 22,668,293 | 16,490,948 |
| 1891 . . . . | 36,560,141 | 6,847,540 | 4,858,893 | 44,427,869 | 9,370,156 | 8,970,405 | 3,061,709 | 3,342,287 | 2,787,205 | 19,559,983 | 16,616,303 |

## Imports of Wool Manufactures, 1867-91. — *Continued.*

| Years. | No. 27. Hats (Wool). | | | No. 28. Knit Goods. | | | No. 29. Rags, Shoddy, etc., etc. | | | No. 30. Shawls. | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. |
| | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* |
| 1867 . . | 46,977 | 50,808 | 37,366 | 394.744 | 902,887 | 360,160 | 5,561,789 | 535,406 | 192,499 | 149,016 | 327,140 | 183,163 |
| 1868 . . | 63,761 | 128,200 | 76,238 | 245,841 | 622,906 | 332,409 | 619,916 | 99,590 | 75,372 | 109,150 | 313,651 | 164,778 |
| 1869 . . | 56,090 | 98,186 | 62,311 | 295,092 | 568,500 | 336,065 | 574,579 | 63,334 | 68,949 | 41,857 | 139,904 | 69,895 |
| 1870 . . | 50,290 | 84,449 | 54,586 | 400,955 | 719,727 | 449,016 | 738,541 | 68,357 | 88,625 | 66,392 | 226,610 | 112,509 |
| 1871 . . | 70,425 | 131,280 | 81,008 | 253,503 | 558,785 | 321,755 | 1,375,505 | 91,249 | 165,061 | 104,937 | 281,669 | 151,053 |
| 1872 . . | 53,656 | 97,171 | 60,777 | 267,392 | 597,502 | 342,324 | 2,092,057 | 245,190 | 251,531 | 873,782 | 3,069,737 | 1,644,917 |
| 1873 . . | 36,006 | 69,531 | 37,609 | 247,141 | 602,063 | 301,056 | 2,022,858 | 214,340 | 220,316 | 804,967 | 2,755,918 | 1,341,216 |
| 1874 . . | 23,545 | 45,792 | 24,563 | 251,247 | 569,336 | 291,765 | 1,920,098 | 166,049 | 207,386 | 682,527 | 2,263,663 | 1,110,150 |
| 1875 . . | 12,688 | 22,348 | 12,546 | 290,036 | 685,469 | 348,830 | 1,459,222 | 158,588 | 158,542 | 662,912 | 2,189,848 | 1,090,326 |
| 1876 . . | 8,848 | 13,642 | 8,726 | 274,254 | 676,270 | 373,567 | 282,629 | 53,494 | 33,534 | 448,519 | 1,510,731 | 836,192 |
| 1877 . . | 8,202 | 10,226 | 7,354 | 250,253 | 611,988 | 339,276 | 201,490 | 36,128 | 24,195 | 420,645 | 1,260,348 | 706,404 |
| 1878 . . | 6,581 | 9,342 | 5,937 | 202.348 | 527,116 | 288,146 | 133,926 | 23,831 | 16,071 | 466,855 | 1,301,027 | 743,931 |
| 1879 . . | 4,232 | 8,457 | 4,650 | 17,231 | 393,797 | 222,607 | 111,840 | 25,781 | 13,421 | 479,306 | 1,292,479 | 749,899 |
| 1880 . . | 4,368 | 7,272 | 4,481 | 277,039 | 597,364 | 347,408 | 1,289,146 | 280,903 | 154,698 | 492,989 | 1,272.527 | 749,767 |
| 1881 . . | 521 | 995 | 599 | 461,768 | 1,006,243 | 583,056 | 543,117 | 160,498 | 65,174 | 438,085 | 1,176,198 | 683,918 |
| 1882 . . | 3,079 | 3,574 | 2,423 | 450,881 | 952,328 | 558,630 | 971,621 | 342,071 | 110,115 | 412,592 | 1,071,667 | 627,945 |
| 1883 . . | 1,819 | 4,019 | 2,316 | 396,721 | 1,092,560 | 580,737 | 971,401 | 423,120 | 116,569 | 520,779 | 1,195,688 | 613,194 |
| 1884 . . | 11,209 | 14,320 | 8,994 | 1,091,107 | 2,095,174 | 1,205,601 | 1,225,360 | 533,739 | 122,536 | 399,057 | 747,859 | 438,681 |
| 1885 . . | 1,072 | 2.364 | 1,154 | 1.167,524 | 2,113,952 | 1,241,729 | 789,040 | 323,522 | 78,904 | 586,759 | 1,057,865 | 616,674 |
| 1886 . . | 11,070 | 12,331 | 7,853 | 1,174,853 | 1,930,389 | 1,170,034 | 2,696,517 | 919,771 | 269,652 | 694,035 | 1,043,927 | 648,184 |
| 1887 . . | 3,273 | 6,595 | 3,562 | 1,331,828 | 1,980,454 | 1,243,689 | 4,902,381 | 1,855,618 | 490,238 | 727,887 | 1,029,998 | 654,008 |
| 1888 . . | 12,624 | 14,002 | 8.308 | 1,114,517 | 1,738,249 | 1,071,631 | 4,057,731 | 1,576,013 | 405,773 | 727,947 | 975,564 | 632,410 |
| 1889 . . | 20,178 | 16.302 | 11,147 | 1,220.281 | 1,795,156 | 1,133,176 | 8,478,984 | 3,339,480 | 847,898 | 711,910 | 902,229 | 597,661 |
| 1890 . . | 10,824 | 7,744 | 5,236 | 1,429,250 | 1,932,471 | 1,242,656 | 584,172 | 226,106 | 58,417 | 734,013 | 960,470 | 628,043 |
| 1891 . . | 26,063 | 17,831 | 12,511 | 892,425 | 1,196,159 | 779,099 | 1,518,429 | 560,007 | 206,527 | 509,443 | 697,588 | 509,162 |

## Imports of Wool Manufactures, 1867-91.— *Concluded.*

| Years. | No. 31. Webbing, etc. | | | No. 32. Yarns (Woolen and Worsted.) | | | No. 33. All other Manufactures. | | |
|---|---|---|---|---|---|---|---|---|---|
| | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. | Quantities. | Values. | Duties. |
| | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* | *Pounds.* | *Dollars.* | *Dollars.* |
| 1867 | 98,892 | 166,616 | 129,754 | 432,399 | 527,566 | 278,493 | 244,448 | 294,910 | 220,881 |
| 1868 | 376,004 | 742,113 | 559,058 | 529,477 | 655,808 | 488,485 | 1,224,669 | 1,312,564 | 1,052,710 |
| 1869 | 182,714 | 356,918 | 269,816 | 472,437 | 543,368 | 422,511 | 1,818,736 | 2,238,295 | 1,686,921 |
| 1870 | 144,141 | 227,333 | 185,737 | 228,625 | 242,497 | 198,244 | 2,307,383 | 2,831,886 | 2,132,607 |
| 1871 | 174,153 | 282,942 | 228,548 | 266,756 | 284,793 | 231,874 | 2,798,924 | 3,113,657 | 2,448,738 |
| 1872 | 120,119 | 304,151 | 212,135 | 255,507 | 281,899 | 224,791 | 1,307,144 | 1,666,023 | 1,214,765 |
| 1873 | 155,356 | 523,388 | 306,615 | 317,832 | 413,955 | 273,120 | 1,260,611 | 2,032,617 | 1,205,306 |
| 1874 | 303,812 | 1,056,240 | 642,024 | 290,582 | 372,643 | 247,546 | 1,387,299 | 2,242,153 | 1,325,831 |
| 1875 | 558,046 | 1,687,613 | 1,044,054 | 335,460 | 416,824 | 283,990 | 1,796,315 | 2,538,209 | 1,629,462 |
| 1876 | 453,179 | 1,388,377 | 920,569 | 342,495 | 439,350 | 323,056 | 1,708,595 | 2,208,186 | 1,599,300 |
| 1877 | 352,851 | 883,115 | 617,983 | 336,669 | 400,044 | 308,301 | 1,331,915 | 1,687,576 | 1,232,686 |
| 1878 | 353,206 | 805,893 | 569,550 | 463,172 | 546,628 | 422,294 | 925,689 | 1,222,289 | 864,104 |
| 1879 | 173,302 | 450,193 | 311,747 | 509,098 | 590,124 | 460,726 | 759,268 | 977,233 | 698,055 |
| 1880 | 184,721 | 455,814 | 320,267 | 635,755 | 705,062 | 557,387 | 940,913 | 1,096,046 | 814,286 |
| 1881 | 119,566 | 327,321 | 223,444 | 476,783 | 540,097 | 424,901 | 1,458,657 | 1,978,874 | 1,386,542 |
| 1882 | 169,389 | 462,711 | 316,050 | 364,704 | 416,008 | 325,950 | 1,506,770 | 1,906,335 | 1,357,033 |
| 1883 | 228,560 | 639,523 | 434,042 | 418,301 | 433,363 | 350,967 | 1,904,648 | 2,362,078 | 1,704,434 |
| 1884 | 184,609 | 459,207 | 284,986 | 1,440,063 | 1,048,743 | 725,351 | 3,480,214 | 3,551,302 | 2,389,367 |
| 1885 | 266,315 | 470,897 | 315,343 | 896,435 | 676,512 | 468,462 | 4,290,544 | 4,065,989 | 2,711,029 |
| 1886 | 398,129 | 616,874 | 427,876 | 4,090,787 | 2,283,176 | 1,565,569 | 7,252,567 | 6,356,083 | 4,204,028 |
| 1887 | 239,817 | 443,809 | 293,850 | 2,948,661 | 1,747,562 | 1,207,735 | 8,108,796 | 6,656,449 | 4,560,905 |
| 1888 | 357,021 | 632,987 | 423,600 | 3,444,640 | 1,990,154 | 1,362,293 | 9,077,016 | 7,039,342 | 4,829,328 |
| 1889 | 363,825 | 749,997 | 484,146 | 3,834,773 | 2,204,053 | 1,502,514 | 12,891,182 | 9,893,895 | 6,831,127 |
| 1890 | 303,507 | 535,971 | 359,038 | 3,229,778 | 1,844,849 | 1,270,087 | 3,615,440 | 3,599,769 | 2,478,010 |
| 1891 | 212,326 | 370,139 | 300,577 | 2,557,139 | 1,505,755 | 1,141,557 | 2,271,933 | 2,373,909 | 1,797,525 |

## No. 34.—Imports of Wool and Manufactures of Wool, Calendar Years 1890 and 1891.

*United States Bureau of Statistics.*

| ARTICLES. | Quantities. | | Values. | |
|---|---|---|---|---|
| | 1891. | 1890. | 1891. | 1890. |
| *Wools, Hair of the Camel, Goat, Alpaca, and other like animals.* | | | | |
| Unmanufactured: | *lbs.* | *lbs.* | | |
| Class one | 36,854,275 | 19,381,594 | $7,746,015 | $4,496,737 |
| Class two | 6,079,033 | 6,235,461 | 1,434,662 | 1,478,758 |
| Class three | 96,384,263 | 83,063,572 | 9,617,725 | 9,508,431 |
| Total | 139,317,571 | 108,680,672 | $18,798,402 | $15,483,926 |
| Manufactures of — | *sq. yds.* | *sq. yds.* | | |
| Carpets and carpeting, | 639,506 | 578,764 | $1,423,577 | $873,808 |
| Clothing, ready-made, and other wearing apparel, except shawls and knit goods | ..... | ..... | 1,730,487 | 1,760,789 |
| | *lbs.* | *lbs.* | | |
| Cloths | 11,886,716 | 14,686,866 | 11,489,972 | 14,695,955 |
| Dress goods, women's and children's | *sq. yds.* 70,688,144 | *sq. yds.* 119,448,203 | 15,190,683 | 24,641,255 |
| Knit fabrics | ..... | ..... | 1,022,548 | 1,800,395 |
| Rags, mungo, flocks, noils, shoddy, and wastes | *lbs.* 215,714 | *lbs.* 3,062,941 | 58,627 | 1,235,772 |
| Shawls | ..... | ..... | 567,813 | 900,420 |
| Yarns | 1,162,261 | 3,219,836 | 739,060 | 1,807,245 |
| All other | ..... | ..... | 1,787,776 | 6,183,275 |
| Total | ..... | ..... | $34,010,543 | $53,898,914 |

These are gross imports, and differ from the preceding tables of imports entered for consumption.

## No. 35.—Manufactures of Wool Imported from Principal European Countries, Value of. 1821-1891. Gross Imports.

U. S. Treasury, Bureau of Statistics.

| Years ending | Great Britain and Ireland. | France. | Germany. | Netherlands. | Belgium. | Total Imports. |
|---|---|---|---|---|---|---|
| Sept. 30— | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* |
| 1821 . . . . | 6.950,403 | 89.335 | 81,061 | 57.315 | . . . . . | 7,238,954 |
| 1822 . . . . | 11,384,003 | 204,418 | 43,006 | 82,991 | . . . . . | 11,752,595 |
| 1823 . . . . | 7,711,311 | 90,250 | 63,313 | 50,712 | . . . . . | 7,953,433 |
| 1824 . . . . | 7,778.873 | 126,303 | 117,730 | 74,627 | . . . . . | 8,124,687 |
| 1825 . . . . | 11,335,884 | 341,448 | 153,522 | 97,860 | . . . . . | 12,017,468 |
| 1826 . . . . | 7,780,272 | 464,817 | 230,137 | 95,074 | . . . . . | 8,657,424 |
| 1827 . . . . | 8.146.332 | 499,102 | 88,623 | 42,115 | . . . . . | 8,866,226 |
| 1828 . . . . | 8,025,677 | 592,014 | 107,157 | 49,976 | . . . . . | 8,842,389 |
| 1829 . . . . | 6,380,844 | 608.018 | 125,356 | 61,637 | . . . . . | 7,193.653 |
| 1830 . . . . | 5,218,283 | 522.511 | 97,307 | 49,185 | . . . . . | 5,900,988 |
| 1831 . . . . | 11,656,322 | 1,214,628 | 249,006 | 44,889 | . . . . . | 13,197,364 |
| 1832 . . . . | 9,434,176 | 790,484 | 140,965 | 25,745 | . . . . . | 10,440,490 |
| 1833 . . . . | 12,241,725 | 1,148.113 | 179,789 | 76,517 | 29,052 | 13,713,141 |
| 1834 . . . . | 6,946,935 | 336,864 | 82,515 | 18,781 | 19,170 | 7,444.035 |
| 1835 . . . . | 16,667,993 | 1,996,782 | 318,542 | 106,067 | 22.120 | 19,151,950 |
| 1836 . . . . | 20,295,069 | 3,541,592 | 590,897 | 87,561 | 85,382 | 24,637,881 |
| 1837 . . . . | 7,668,569 | 2,251,331 | 372,292 | 30,974 | 59,703 | 10,410,782 |
| 1838 . . . . | 10,191,732 | 2,412,363 | 417,856 | 24,133 | 26,817 | 13,130,956 |
| 1839 . . . . | 15,460,624 | 4,428.108 | 969.014 | 30,539 | 87,398 | 21,024,427 |
| 1840 . . . . | 7,851,329 | 2,533,227 | 298,082 | 11,870 | 93,637 | 10,808,485 |
| 1841 . . . . | 9,250,231 | 3,357,091 | 148,924 | 3,828 | 141,740 | 12.943,883 |
| 1842 . . . . | 6,436,478 | 2,836,687 | 198,596 | 1,180 | 205,906 | 9,689,648 |
| June 30— | | | | | | |
| 1843* . . . | 1,993,076 | 842,594 | 39,197 | 903 | 66,797 | 2,971,456 |
| 1844 . . . . | 7,861,601 | 3,228,040 | 184,064 | 9,896 | 356,435 | 11,751,971 |
| 1845 . . . . | 8,318,614 | 4,496,378 | 295,505 | 5,804 | 279,308 | 13,578,352 |
| 1846 . . . . | 6,498,713 | 5,436,553 | 466,818 | 26,969 | 311,323 | 12,778,854 |
| 1847 . . . . | 7,290,471 | 5,257,105 | 709,600 | 8,210 | 356,775 | 13,664,102 |
| 1848 . . . . | 10,222,459 | 6,386,365 | 1,321,685 | 22,132 | 410,874 | 18,405,461 |
| 1849 . . . . | 9,755,534 | 4,542,066 | 1,494,084 | 24,922 | 930,975 | 16,779,501 |
| 1850 . . . . | 12,229,042 | 4,666,681 | 1,681,676 | 75,249 | 944,759 | 19,620,619 |
| 1851 . . . . | 15,511,351 | 4,374,493 | 1,878,806 | 12,336 | 496,609 | 22,358,879 |
| 1852 . . . . | 14,303,266 | 4,098,866 | 1,698,299 | 16,933 | 476,445 | 20,611,286 |
| 1853 . . . . | 22,012,887 | 5,648,985 | 3,494,723 | 13,033 | 610,745 | 31,819,771 |
| 1854 . . . . | 26,127,308 | 5,742,374 | 4,996,269 | 21,342 | 611.668 | 37,904,473 |
| 1855 . . . . | 17,599,507 | 5,336,076 | 3,419,626 | 30,717 | 774,950 | 27,754,372 |
| 1856 . . . . | 21,756,266 | 7,913,417 | 4,673,920 | 16,011 | 694,080 | 35,582,712 |
| 1857 . . . . | 21,631,678 | 7,759,592 | 4,535,118 | 36,912 | 1,029.480 | 35,289,345 |
| 1858 . . . . | 17,714,424 | 5,750,608 | 4,636,212 | 47,201 | 1,151,037 | 29,534,655 |
| 1859 . . . . | 24,549,811 | 5,703,378 | 6,275,671 | 23,837 | 435,141 | 37,295,594 |
| 1860 . . . . | 29,202,264 | 6,237,268 | 6,873,562 | 6,128 | 328,297 | 43,141,988 |
| 1861 . . . . | 21,244,012 | 3,698,126 | 4,747,714 | 12,105 | 321,121 | 30,430,140 |
| 1862 . . . . | 11,824,359 | 603,047 | 2,894,753 | 14,696 | 143,963 | 15,639,913 |
| 1863 . . . . | 16,571,739 | 1,146,717 | 3,406,525 | 11,661 | 281,236 | 21,524,802 |
| 1864 . . . . | 27,859,732 | 583,483 | 4,007,704 | 742 | 311,871 | 33,349,702 |
| 1865 . . . . | 17,212,125 | 701,697 | 2,774,269 | 5,822 | 112,530 | 21,929,487 |
| 1866 . . . . | 47,340,242 | 2,141,502 | 8,435,045 | 8,441 | 227,063 | 58,719,754 |
| 1867 . . . . | 34,467,054 | 4,388,373 | 7,293,944 | 6,198 | 260,440 | 46.502,952 |
| 1868 . . . . | 24 359,155 | 2,887,439 | 4,622,855 | 1,848 | 512,774 | 32,489,342 |
| 1869 . . . . | 27,965,650 | 3,584,026 | 4,237,388 | 4,375 | 85,453 | 36,077,875 |
| 1870 . . . . | 25,537,324 | 5,465,222 | 5,404,945 | 13 | 2,581 | 37,064,001 |
| 1871 . . . . | 38.453,099 | 3,057,204 | 4,460,731 | 33,271 | 157,495 | 46,713,767 |
| 1872 . . . . | 40,290,136 | 6,199,468 | 8,668,263 | 41 | 84,306 | 55,561,850 |

* Nine months.

**Manufactures of Wool Imported, etc., — *concluded.***

U. S. Treasury, Bureau of Statistics.

| Years ending | Great Britain and Ireland. | France. | Germany. | Netherlands. | Belgium. | Total Imports. |
|---|---|---|---|---|---|---|
| June 30 — | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* | *Dollars.* |
| 1873 . . . . | 38,845,244 | 4,071,833 | 10,120,371 | 7,362 | 79,093 | 53,510,560 |
| 1874 . . . . | 31,332,534 | 9,571,305 | 7,218,899 | 3,781 | 429,237 | 48,826,816 |
| 1875 . . . . | 27,689,119 | 11,863,486 | 6,176,837 | 14,962 | 442,829 | 46,348,545 |
| 1876 . . . . | 20,490,992 | 8,735,950 | 1,882,703 | 76,471 | 482,816 | 34,859,506 |
| 1877 . . . . | 14,180,611 | 7,852,530 | 4,197,162 | 165,897 | 327,842 | 26,911,873 |
| 1878 . . . . | 14,305,797 | 7,206,015 | 4,477,894 | 179,209 | 223,562 | 26,505,573 |
| 1879 . . . . | 12,447,843 | 8,769,836 | 3,704,286 | 247,393 | 236,488 | 25,527,117 |
| 1880 . . . . | 19,741,060 | 9,696,716 | 4,834,315 | 492,464 | 441,070 | 35,356,992 |
| 1881 . . . . | 17,125,936 | 8,727,900 | 5,529,430 | 593,061 | 808,473 | 32,970,307 |
| 1882 . . . . | 19,304,355 | 10,938,105 | 5,998,426 | 464,219 | 1,614,946 | 38,726,925 |
| 1883 . . . . | 19,850,218 | 15,972,196 | 6,879,471 | 366,567 | 1,863,554 | 45,457,307 |
| 1884 . . . . | 19,299,351 | 11,071,945 | 9,654,420 | 7,732 | 474,995 | 41,157,583 |
| 1885 . . . . | 16,596,096 | 9,472,430 | 8,891,239 | 6,835 | 309,465 | 35,776,559 |
| 1886 . . . . | 21,692,001 | 9,977,444 | 8,722,643 | 14,388 | 432,966 | 41,421,319 |
| 1887 . . . . | 21,986,452 | 11,280,890 | 10,206,151 | 7,724 | 522,681 | 44,904,816 |
| 1888 . . . . | 23,830,951 | 11,498,901 | 10,792,403 | 7,455 | 680,054 | 47,719,393 |
| 1889 . . . . | 28,217,436 | 12,102,032 | 10,761,980 | 3,976 | 652,694 | 52,564,942 |
| 1890 . . . . | 29,107,893 | 13,472,462 | 12,318,783 | 7,006 | 755,966 | 56,582,432 |
| 1891 . . . . | 19,492,661 | 9,913,983 | 9,830,013 | 7,271 | 590,185 | 41,060,080 |

The total value includes the importations of woolen goods, small in value, from all other countries.

## No. 36. — United States Standard Wool Samples.

Now in Use in the Custom Houses. Prepared by Geo. Wm. Bond, 1883.

Class 1. — Clothing Wools.

1. South Africa, Cape Fleece.
2. " " Natal.
3. " " Cape, unwashed.
4. " " Cape Skin.
5. Algiers.
6. Constantine.
7. Oran.
8. Morocco . . Larrache.
9. " . . Beldia.
10. " . . Urdigria.
11. Spain . . . . Talavera.
12. " . . . . Navarre.
13. Chile . . . . Merino.
14. Australia . . Port Philip, lambs.
15. " . . do., crossbred, washed.
16. " . . do., washed.
17. " . . Noils.
18. " . . Port Philip, washed.
19. " . . do., fleece.
20. " . . Port Philip, scoured.
21. New Zealand, Matchings.
22. New Zealand.
23. " " Mestiza.
24. " " Crossbred.
25. Argentine Republic . . Entre Rios Matchings.
26. Argentine Republic . . Buenos Ayres Skin.
27. Uruguay.
28. Argentine Republic . . Lincoln.
29. Argentine Republic . . Mestiza.
30. Germany . . Saxony.
31. Turkey . . . Galatz, Sigay.
32. " . . Varna, do.
33. " . . . Adrianople.
34. Wales.
35. Brazil . . . . Mestiza.
36. Italy . . . . Pulled.
37. " . . . . do.
38. Africa . . . Bengazi.

## United States Standard Wool Samples. — *Concluded.*

### Class 2. — Combing Wools.

| | | | | | |
|---|---|---|---|---|---|
| 39. | England | Wiltshire Downs. | 49. | Canada | Pulled Combing. |
| 40. | " | Dorset Horns. | 50. | " | Fleece. |
| 41. | " | Stafford. | 51. | Ireland. | |
| 42. | " | Shropshire. | 52. | Scotland | Cheviot. |
| 43. | " | Lincoln. | 53. | China | Cashmere. |
| 44. | " | Yorkshire. | 54. | East India | do. |
| 45. | " | Sussex Downs. | 55. | Turkey | Mohair. |
| 46. | " | Leicester. | 56. | " | do., Noils. |
| 47. | " | Medium Downs. | 57. | Peru | Vicunia. |
| 48. | " | Best Downs. | 58. | " | Alpaca. |

### Class 3. — Carpet Wools.

| | | | | | |
|---|---|---|---|---|---|
| 61. | Italy | Coarse Pulled. | 89. | Turkey | Erzeroum. |
| 62. | Persia | Bagdad. | 90. | " | Salonica. |
| 63. | " | Karadi. | 91. | " | Kaassbatchi. |
| 64. | " | Aleppo. | 92. | Greece. | |
| 65. | " | Caracach. | 93. | Austria | Zachel. |
| 66. | " | Mossoul. | 94. | | |
| 67. | " | Bagdad. | 95. | Portugal | Oporto. |
| 68. | " | Bokhara. | 96. | Tarakama. | |
| 69. | " | Khorasan. | 97. | England | Herdwick. |
| 70. | " | Noils. | 98. | Scotland | Unwashed Highland. |
| 71. | East India | Marwar. | | | |
| 72. | " " | Vicaneer. | 99. | " | Washed Highland. |
| 73. | " " | Pathan. | | | |
| 74. | " " | Kandahar. | 100. | " | Laid Highland. |
| 75. | " " | Joria. | 101. | " | Haslock. |
| 76. | " " | Native. | 102. | " | Haslock, pulled in England. |
| 77. | | Georgia, B. O. | | | |
| 78. | | Georgia, B. S., 1st and 2d clip. | 103. | Argentine Republic | Cordova. |
| 79. | | Georgia, B., 1st and 2d clip. | 104. | Argentine Republic | Entre Rios, Criolla. |
| 80. | | Georgia. G. C., 1st and 2d clip. | 105. | Brazil | Rio Grande, Criolla. |
| 81. | | Georgia, lambs. | | | |
| 82. | | Nouka. | 106. | Chili | Valparaiso. |
| 83. | Russia | Donskoi. | 107. | China. | |
| 84. | " | do., noils. | 108. | " | |
| 85. | " | Kalmuc. | 109. | Spain | Churro or Coarse. |
| 86. | Turkey | Limed, Smyrna. | 110. | Egypt. | |
| 87. | " | Fine, do. | 111. | Iceland. | |
| 88. | " | Angora. | | | |

Note. — A Commission, consisting of Edward A. Greene, John T. Rich, Nicholas Mauger, and J. L. Houston, is now engaged in revising the Standard Samples.

## No. 37.—Comparative Consumption of Wool in the United States.

| Year. | Imports of Wool. | Home Production of Wool Preceding Year. | Total Imports and Home Production of Wool. | Imports of Wool Manufactures, allowing 3 lbs. of Wool to the $1 in value. | Total Consumption. | Per Capita Consumption of Wool. |
|---|---|---|---|---|---|---|
| | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* |
| **1840** | 9,898,740 | 35,802,114 | 45,700,854 | 31,095,276 | 76,796,130 | $4\frac{49}{100}$ |
| **1850** | 18,695,294 | 52,516,969 | 71,212,263 | 58,178,613 | 129,390,876 | $5\frac{58}{100}$ |
| **1860** | 26,282,955 | 60,264,913 | 86,547,868 | 128,497,923 | 215,045,791 | $6\frac{84}{100}$ |
| **1870** | 38,634,067 | 162,000,000 | 200,634,067 | 105,289,422 | 305,923,489 | $7\frac{93}{100}$ |
| **1880** | 99,372,440 | 232,500,000 | 331,872,440 | 95,503,641 | 427,376,081 | $8\frac{52}{100}$ |
| **1890** | 109,902,106 | 295,779,479 | 405,681,585 | 162,496,269 | 568,177,854 | $9\frac{07}{100}$ |

## No. 38.—Census of American Wool Manufactures, 1840-1890.

| Year. | Establishments. | Capital. | Materials. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | Number of Establishments. | Capital Invested. | Pounds of Domestic Wool. | Pounds of Foreign Wool. | Total Pounds of Wool. | Pounds of Hair, noils, etc. | Pounds of Cotton. | Pounds of Shoddy. | Value of Raw Material. |
| 1840 | 1,420 | $15,765,124 | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . |
| 1850 | 1,558 | 28,118,650 | . . . . . | . . . . . | * 70,862,829 | . . . . . | . . . . . | . . . . . | $25,755,991 |
| 1860 | 1,909 | 35,520,527 | . . . . . | . . . . . | 80,386,572 | . . . . . | 16,008,625 | . . . . . | 40,360,300 |
| 1870 | 3,208 | 121,520,827 | 168,084,414 | 46,288,814 | 214,373,228 | . . . . . | 21,038,877 | 19,384,404 | 124,318,792 |
| 1880 | 2,689 | 159,091,869 | 222,991,531 | 73,200,698 | 296,192,229 | 8,077,966 | 48,000,857 | 52,163,926 | 164,371,551 |
| 1890 | 2,770 | 320,417,304 | 258,757,101 | 114,116,612 | 372,873,713 | 26,691,812 | 75,638,865 | 61,626,261 | 203,095,642 |

*No division of foreign and domestic wool was given previous to 1870.

| Year. | Machinery. | | | | | Hands Employed. | | | | Wages. | Product. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Cards. | Combing Machines. | Looms. | Spindles. | Knitting Machines. | Males. | Females. | Youths. | Total. | Annual Cost of Labor. | Total Products (value). |
| 1840 | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | 21,342 | . . . . . | $20,696,999 |
| 1850 | . . . . . | . . . . . | . . . . . | . . . . . | . . . . . | 22,678 | 16,574 | . . . . . | 39,252 | . . . . . | 43,207,545 |
| 1860 | . . . . . | . . . . . | 16,075 | 639,700 | . . . . . | 28,780 | 20,120 | . . . . . | 48,900 | $10,927,877 | 68,865,963 |
| 1870 | 8,711 | 261 | 41,762 | 2,046,093 | . . . . . | 52,462 | 39,059 | 12,236 | 103,757 | 35,937,150 | 199,137,362 |
| 1880 | 7,581 | 518 | 57,530 | 2,254,996 | 14,769 | 75,459 | 66,814 | 19,284 | 161,557 | 47,389,087 | 267,252,913 |
| 1890 | 8,812 | 890 | 72,894 | 3,458,914 | 38,745 | 99,318 | 106,057 | 15,657 | 221,032 | 76,741,266 | 338,231,109 |

## U. S. CENSUS STATISTICS OF WOOL MANUFACTURE — 1880 and 1890.

### No. 39. — Comparative Statement of Increase.

| General Heads. | 1890. | 1880. | Percentage of Increase. |
|---|---|---|---|
| Number of establishments reported | 2,774 | 2,689 | 3.16 |
| Capital invested | $320,443,804 | $159,091,869 | . . . . . |
| Number of hands employed | 221,032 | 161,557 | 36.81 |
| Wages paid | $76,741,266 | $47,389,087 | 61.94 |
| Miscellaneous expenses | $19,547,200 | . . . . . | . . . . . |
| Cost of materials used | $203,095,642 | $164,371,551 | 23.56 |
| Value at factory of goods manufactured | $338,231,109 | $267,252,913 | 26.56 |

"Capital invested" in 1890, includes all assets, many of which were not reported in 1880.

### No. 40. — Geographical Distribution of Wool Machinery, 1870, 1880, and 1890.

| States. | 1870. | | 1880. | | 1890. | |
|---|---|---|---|---|---|---|
| | Number of Sets. | Per cent. of Total. | Number of Sets. | Per cent. of Total. | Number of Sets. | Per cent. of Total. |
| Total Sets | 9,230 | . . . . . | 7,581 | . . . . . | 8,812 | . . . . . |
| Massachusetts | 1,512 | 16.5 | 1,660 | 21.9 | 1,972 | 22.4 |
| Pennsylvania | 1,468 | 15.9 | 1,155 | 15.2 | 1,415 | 16.1 |
| New York | 1,170 | 12.7 | 1,150 | 15.2 | 1,516 | 17. |
| Rhode Island | 496 | 5.1 | 495 | 6.5 | 602 | 6.8 |
| Connecticut | 752 | 8.2 | 622 | 8.2 | 687 | 7.8 |
| New Hampshire | 418 | 4.6 | 385 | 5.1 | 503 | 5.7 |
| Maine | 335 | 3.6 | 274 | 3.6 | 412 | 4.7 |
| New Jersey | 111 | 1.2 | 184 | 2.4 | 243 | 2.8 |
| Vermont | 200 | 2.2 | 167 | 2.2 | 157 | 1.8 |
| Ohio | 334 | 3.6 | 182 | 2.4 | 130 | 1.5 |
| Indiana | 346 | 3.7 | 160 | 2.2 | 170 | 1.9 |
| Illinois | 251 | 2.8 | 109 | 1.4 | 77 | 1. |
| In twelve States (above) | 7,393 | 80.1 | 6,543 | 86.3 | 7,884 | 89.5 |
| All other States | 1,837 | 19.9 | 1,038 | 13.7 | 928 | 10.5 |

Of the 261 combing-machines in operation in 1870, Massachusetts had 172, or 65.9 per cent.; Pennsylvania, 29, or 11.1 per cent.; and Rhode Island, 7, or 2.7 per cent. Massachusetts had in 1890, 29.8 per cent.; Pennsylvania, 24 per cent.; Rhode Island, 22 per cent.; and New York, 9.9 per cent. of the combing machinery. All other States but 15.3 per cent.

## No. 41. — Capital, Labor and Wages, Cost of Materials, Value of Products, 1880 and 1890.

| States. | | Number Establishments. | Capital. | | | Labor and Wages. | | | | | Cost of Materials used. | Value of Products. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total. | Value of Land, Buildings, and Machinery. | Live Assets. | Average Number of Hands Employed. | | | | Total Amount paid in Wages. | | |
| | | | | | | Total. | Males above 16 Years. | Females above 15 Years. | Children. | | | |
| U. States . | 1890 | 2,867 | $324,535,011 | $155,643,212 | $168,891,799 | 223,298 | 100,687 | 106,916 | 15,695 | $77,581,525 | $208,971,024 | $345,942,824 |
| | 1880 | 2,689 | 159,091,869 | . . . . . | . . . . . | 162,839 | 76,154 | 67,310 | 19,375 | 47,789,413 | 164,371,551 | 267,252,913 |
| Alabama . | 1890 | 9 | $113,098 | $76,873 | $36,225 | 428 | 36 | 142 | 250 | $67,963 | $114,890 | $207,875 |
| | 1880 | 14 | 28,900 | . . . . . | . . . . . | 18 | 13 | 5 | . . . . | 3,037 | 49,361 | 63,745 |
| Arkansas . | 1890 | 7 | 42,435 | 36,800 | 5,635 | 31 | 16 | 12 | 3 | 6,231 | 27,980 | 38,360 |
| | 1880 | 25 | 85,550 | . . . . . | . . . . . | 90 | 62 | 31 | 7 | 13,226 | 85,972 | 127,430 |
| California . | 1890 | 15 | 2,995,950 | 1,875,073 | 1,120,877 | 1,379 | 937 | 418 | 24 | 331,718 | 828,771 | 1,428,203 |
| | 1880 | 9 | 1,676,509 | . . . . . | . . . . . | 835 | 708 | 108 | 19 | 334,318 | 997,539 | 1,634,858 |
| Connecticut | 1890 | 116 | 25,492,102 | 10,841,276 | 14,650,826 | 13,227 | 7,061 | 5,575 | 591 | 5,026,599 | 12,973,271 | 21,492,025 |
| | 1880 | 102 | 14,221,637 | . . . . . | . . . . . | 12,163 | 6,440 | 4,283 | 1,440 | 4,022,310 | 14,742,091 | 24,855,729 |
| Delaware . | 1890 | 4 | 506,974 | 313,000 | 193,974 | 297 | 146 | 112 | 39 | 103,395 | 295,605 | 482,022 |
| | 1880 | 5 | 352,559 | . . . . . | . . . . . | 261 | 171 | 59 | 31 | 108,504 | 448,285 | 665,253 |
| Georgia . . | 1890 | 19 | 444,033 | 329,940 | 114,093 | 528 | 135 | 292 | 101 | 104,353 | 166,696 | 340,095 |
| | 1880 | 32 | 180,733 | . . . . . | . . . . . | 142 | 72 | 45 | 25 | 25,070 | 165,065 | 239,390 |
| Illinois . . | 1890 | 66 | 3,383,831 | 1,534,472 | 1,849,359 | 2,906 | 872 | 1,961 | 73 | 895,143 | 1,869,858 | 3,471,651 |
| | 1880 | 67 | 1,433,353 | . . . . . | . . . . . | 1,780 | 703 | 848 | 229 | 400,910 | 1,623,693 | 2,380,584 |
| Indiana . . | 1890 | 65 | 3,827,195 | 1,844,096 | 1,983,099 | 3,109 | 1,218 | 1,718 | 173 | 817,387 | 2,287,680 | 3,863,786 |
| | 1880 | 86 | 2,318,705 | . . . . . | . . . . . | 2,025 | 872 | 788 | 365 | 487,381 | 1,926,670 | 2,887,547 |

| | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Iowa . . . | 1890 | 24 | 901,900 | 500,150 | 401,750 | 387 | 189 | 182 | 16 | 135,790 | 507,478 | 700,981 |
| | 1880 | 37 | 555,700 | . . . . . | . . . . . | 505 | 310 | 135 | 60 | 118,252 | 437.301 | 682,812 |
| Kansas . . . | 1880 | 5 | 131,925 | . . . . . | . . . . . | 124 | 66 | 40 | 18 | 25,825 | 107,251 | 211,525 |
| Kentucky . | 1890 | 45 | 2,402,383 | 1,471,227 | 1,431,156 | 2,042 | 923 | 941 | 178 | 615,055 | 1,656,710 | 2,784,768 |
| | 1880 | 98 | 894,750 | . . . . . | . . . . . | 823 | 353 | 253 | 217 | 166,189 | 852,405 | 1,264,988 |
| Louisiana . . | 1890 | 4 | 122,900 | 90,000 | 32,900 | 286 | 28 | 258 | . . . | 52,517 | 58,004 | 152,455 |
| Maine . . . | 1890 | 91 | 9,741,422 | 4,195,686 | 5,545,736 | 5,476 | 3,304 | 2,022 | 150 | 2,000,134 | 5,737,484 | 8,857,856 |
| | 1880 | 97 | 4,016,828 | . . . . . | . . . . . | 3,273 | 1,815 | 1,161 | 297 | 1,093,234 | 4,444,990 | 6,962,003 |
| Maryland . | 1890 | 20 | 582,681 | 334,999 | 247,682 | 829 | 242 | 320 | 267 | 189,994 | 520,870 | 781,723 |
| | 1880 | 16 | 344,010 | . . . . . | . . . . . | 404 | 251 | 105 | 48 | 72,591 | 382,224 | 539,028 |
| Mass. . . . | 1890 | 366 | 76,611,687 | 33,465,925 | 43,145,762 | 43,473 | 22,734 | 18,897 | 1,842 | 16,334,782 | 45,937,152 | 74,295,867 |
| | 1880 | 271 | 38,231,375 | . . . . . | . . . . . | 38,599 | 18,708 | 16,578 | 3,313 | 11,809,328 | 41,677,919 | 67,451,805 |
| Michigan . | 1890 | 52 | 1,899,460 | 1,017,853 | 881,607 | 1,428 | 489 | 907 | 32 | 390,147 | 886,541 | 1,689,974 |
| | 1880 | 50 | 706,189 | . . . . . | . . . . . | 1,309 | 283 | 820 | 206 | 168,564 | 583,241 | 858,766 |
| Minnesota . | 1890 | 27 | 885,716 | 506,648 | 379,068 | 470 | 220 | 249 | 1 | 167,323 | 399,487 | 730,226 |
| | 1880 | 14 | 198,500 | . . . . . | . . . . . | 241 | 114 | 77 | 50 | 48,927 | 160,867 | 263,378 |
| Mississippi | 1890 | 7 | 1,553,455 | 876,030 | 677,425 | 1,082 | 415 | 443 | 224 | 306,270 | 508,039 | 924,185 |
| | 1880 | 8 | 331,500 | . . . . . | . . . . . | 218 | 111 | 61 | 46 | 53,100 | 211,646 | 299,605 |
| Missouri . | 1890 | 46 | 823,013 | 554,085 | 268,928 | 635 | 268 | 308 | 59 | 156,887 | 341,461 | 629,902 |
| | 1880 | 102 | 755,550 | . . . . . | . . . . . | 807 | 415 | 258 | 134 | 129,177 | 723,286 | 1,015,961 |
| N. H. . . . | 1890 | 102 | 15,123,749 | 5,686,969 | 9,436,780 | 9,471 | 4,366 | 4,805 | 300 | 3,361,878 | 8,895,504 | 14,589,420 |
| | 1880 | 85 | 8,374,855 | . . . . . | . . . . . | 7,375 | 3,364 | 3,390 | 621 | 2,243,436 | 7,854,955 | 13,220,850 |
| New Jersey, | 1890 | 59 | 8,723,922 | 4,739,394 | 3,984,528 | 7,375 | 3,438 | 3,597 | 340 | 2,460,126 | 6,330,201 | 10,374,280 |
| | 1880 | 45 | 3,795,695 | . . . . . | . . . . . | 5,172 | 2,617 | 1,727 | 828 | 1,417,515 | 4,117,035 | 6,829,074 |
| New York, | 1890 | 391 | 50,125,453 | 25,964,240 | 24,161,213 | 38,739 | 15,160 | 20,889 | 2,690 | 13,109,559 | 30,786,418 | 53,909,624 |
| | 1880 | 264 | 23,583,574 | . . . . . | . . . . . | 24,364 | 9,837 | 11,433 | 3,094 | 7,258,866 | 19,550,793 | 34,978,287 |
| N. Carolina, | 1890 | 38 | 437,628 | 252,970 | 184,658 | 508 | 194 | 230 | 84 | 95,739 | 265,183 | 435,821 |
| | 1880 | 49 | 203,100 | . . . . . | . . . . . | 185 | 120 | 50 | 15 | 23,195 | 255,707 | 303,160 |
| Ohio . . . | 1890 | 136 | 4,614,419 | 2,087,333 | 2,527,086 | 4,561 | 1,381 | 2,731 | 449 | 1,118,206 | 3,434,506 | 5,346,962 |
| | 1880 | 146 | 1,570,340 | . . . . . | . . . . . | 2,423 | 856 | 1,235 | 332 | 414,472 | 1,395,512 | 2,198,264 |
| Oregon . . | 1890 | 6 | 1,350,585 | 342,820 | 1,007,765 | 402 | 245 | 134 | 23 | 175,313 | 327,252 | 614,932 |
| | 1880 | 10 | 566,800 | . . . . . | . . . . . | 216 | 166 | 33 | 17 | 86,088 | 227,486 | 549,030 |
| Penn. . . . | 1890 | 771 | 69,666,069 | 36,354,158 | 33,311,911 | 56,092 | 23,725 | 26,885 | 5,482 | 19,935,298 | 55,011,590 | 90,992,210 |
| | 1880 | 654 | 35,642,016 | . . . . . | . . . . . | 42,404 | 19,115 | 17,546 | 5,743 | 12,385,598 | 43,664,468 | 67,821,397 |

## Capital, Labor and Wages, etc., 1880 and 1890. — *Concluded.*

| States. | | Number Establishments. | Capital. | | | Labor and Wages. | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | Total. | Value of Land, Buildings, and Machinery. | Live Assets. | Average Number of Hands Employed. | | | | Total Amount paid in Wages. | Cost of Materials used. | Value of Products. |
| | | | | | | Total. | Males above 16 Years. | Females above 15 Years. | Children. | | | |
| R. I. | 1890 | 102 | $29,147,587 | $14,693,812 | $14,453,775 | 19,471 | 9,454 | 8,141 | 1,876 | $7,117,123 | $22,726,248 | $36.073.285 |
| | 1880 | 62 | 13,022,116 | . . . . . | . . . . . | 12,247 | 5,928 | 4,437 | 1,882 | 3,730,247 | 13,094,650 | 21,624,204 |
| S. Carolina | 1880 | 11 | 7,900 | . . . . . | . . . . . | 13 | 13 | . . . . | . . . . | 1,173 | 19,455 | 24,075 |
| Tennessee, | 1890 | 55 | 1,421.879 | 700,213 | 721,666 | 998 | 428 | 446 | 124 | 239,657 | 759,766 | 1,216,419 |
| | 1880 | 106 | 418,664 | . . . . . | . . . . . | 402 | 249 | 111 | 42 | 67,063 | 423,054 | 620,724 |
| Texas | 1890 | 6 | 470,170 | 349,130 | 121,040 | 402 | 185 | 176 | 41 | 139,395 | 211,607 | 394,080 |
| | 1880 | 1 | 97,500 | . . . . . | . . . . . | 36 | 28 | 8 | . . . . | 25,700 | 44,435 | 80,500 |
| Utah | 1890 | 15 | 643,329 | 327,795 | 315,534 | 344 | 170 | 155 | 19 | 121,176 | 188,889 | 392,094 |
| | 1880 | 11 | 382,000 | . . . . . | . . . . . | 277 | 150 | 79 | 48 | 68,508 | 147,226 | 279,424 |
| Vermont | 1890 | 42 | 4,283,890 | 1,688,666 | 2,595,224 | 2,316 | 1,230 | 1,044 | 42 | 900,208 | 2,116,882 | 3,872,784 |
| | 1880 | 50 | 2,812,161 | . . . . . | . . . . . | 2,482 | 1,315 | 1,019 | 148 | 649,071 | 2,372,428 | 3,813,077 |
| Virginia | 1890 | 43 | 1,011,447 | 562,503 | 448,944 | 636 | 372 | 233 | 31 | 171,463 | 466,340 | 795,309 |
| | 1880 | 48 | 456,750 | . . . . . | . . . . . | 365 | 251 | 95 | 19 | 71,720 | 383,080 | 577,968 |
| Wash. | 1880 | 1 | 40,000 | . . . . . | . . . . . | 29 | 18 | 8 | 3 | 4,000 | 52,000 | 70,000 |
| W. Virginia | 1890 | 35 | 357,881 | 185,970 | 171,911 | 307 | 178 | 118 | 11 | 67,380 | 210,461 | 350,132 |
| | 1880 | 56 | 298,170 | . . . . . | . . . . . | 357 | 228 | 96 | 33 | 44,861 | 247,543 | 359,686 |
| Wisconsin, | 1890 | 66 | 4,063,739 | 1,674,198 | 2,389,541 | 3,518 | 881 | 2,481 | 156 | 822,423 | 2,024,108 | 3,507,455 |
| | 1880 | 52 | 1,359,964 | . . . . . | . . . . . | 875 | 432 | 398 | 45 | 218,357 | 901,918 | 1,498,886 |
| All other states | 1890 | 17 | 263,029 | 168,908 | 94,121 | 145 | 47 | 94 | 4 | 44,893 | 98,092 | 206,063 |

## No. 42.—Summary Classification of Woolen Manufacturing Industries.

| Industries. | | Number of Establishments. | Capital. | | | Miscellaneous Expenses. |
|---|---|---|---|---|---|---|
| | | | Total. | Value of Land, Buildings, and Machinery. (*a*) | Live Assets. | |
| Total | 1890 | *b* 2,503 | $314,309,944 | $147,450,870 | $166,859,074 | $19,547,200 |
| | 1880 | 2,689 | 159,091,869 | . . . . . | . . . . . | . . . . . |
| Mills. | | | | | | |
| Woolen | 1890 | 1,312 | $137,930,014 | $64,754,417 | $73,175,597 | 8,511,292 |
| | 1880 | 1,990 | 96,095,564 | . . . . . | . . . . . | . . . . . |
| Worsted | 1890 | 143 | 72,194,642 | 32,000,336 | 40,194,306 | 4,980,187 |
| | 1880 | 76 | 20,374,043 | . . . . . | . . . . . | . . . . . |
| Felt goods | 1890 | 34 | 4,589,021 | 1,994,384 | 2,594,637 | 233,621 |
| | 1880 | 26 | 1,958,254 | . . . . . | . . . . . | . . . . . |
| Wool hats | 1890 | 32 | 4,369,184 | 1,421,349 | 2,947,835 | 251,818 |
| | 1880 | 43 | 3,615,830 | . . . . . | . . . . . | . . . . . |
| Carpets, other than rag | 1890 | 175 | 39,769,441 | 18,915,634 | 20,853,807 | 1,839,568 |
| | 1880 | 195 | 21,468,587 | . . . . . | . . . . . | . . . . . |
| Hosiery and knit goods | 1890 | 807 | 55,457,642 | 28,364,750 | 27,092,892 | 3,730,714 |
| | 1880 | 359 | 15,579,591 | . . . . . | . . . . . | . . . . . |

*a* Includes property hired to the value of $17,326,780.

*b* Excluding 267 idle establishments reported in wool manufacture.

## Summary Classification of Woolen Manufacturing Industries.— *Concluded.*

| Industries. | | Labor and Wages. | | | | | Total Cost of all Materials. | Total Value of all Products. |
|---|---|---|---|---|---|---|---|---|
| | | Average Number of Hands Employed. | | | | Total Amount Paid in Wages. | | |
| | | Total. | Males. | Females. | Children. | | | |
| Total | 1890 | 221,032 | 99,318 | 106,057 | 15,657 | $76,741,266 | $203,095,642 | $338,231,109 |
| | 1880 | 161,557 | 75,459 | 66,814 | 19,284 | 47,389,087 | 164,371,551 | 267,252,913 |
| Mills. | | | | | | | | |
| Woolen | 1890 | 79,388 | 44,526 | 30,236 | 4,626 | 28,478,326 | 82,184,666 | 133,612,827 |
| | 1880 | 86,504 | 46,978 | 29,372 | 10,154 | 25,836,392 | 100,845,611 | 160,606,721 |
| Worsted | 1890 | 43,593 | 19,705 | 20,063 | 3,825 | 15,880,183 | 50,644,342 | 79,194,652 |
| | 1880 | 18,803 | 6,435 | 9,473 | 2,895 | 5,683,027 | 22,013,628 | 33,549,942 |
| Felt | 1890 | 2,266 | 1,594 | 510 | 162 | 1,041,296 | 2,809,187 | 4,654,768 |
| | 1880 | 1,524 | 1,203 | 233 | 88 | 439,760 | 2,530,710 | 3,619,652 |
| Wool hats | 1890 | 3,592 | 2,309 | 1,124 | 159 | 1,363,944 | 2,799,791 | 5,329,921 |
| | 1880 | 5,470 | 3,222 | 1,459 | 789 | 1,893,215 | 4,785,774 | 8,516,569 |
| Carpets, other than rag | 1890 | 29,189 | 14,101 | 13,083 | 2,005 | 11,639,176 | 28,649,031 | 47,801,499 |
| | 1880 | 20,371 | 10,104 | 8,570 | 1,697 | 6,835,218 | 18,984,877 | 31,792,802 |
| Hosiery and knit goods | 1890 | 63,004 | 17,083 | 41,041 | 4,880 | 18,338,341 | 36,008,625 | 67,637,442 |
| | 1880 | 28,885 | 7,517 | 17,707 | 3,661 | 6,701,475 | 15,210,951 | 29,167,227 |

## No. 43.—Statement of Idle Capital and Machinery for 1890.

| States. | No. Mills. | Total Capital. | Land. | Buildings. | Machinery. | Sets of Cards. | Combing Machines. | Spindles. | Looms. | Knitting Machines. |
|---|---|---|---|---|---|---|---|---|---|---|
| California | 4 | $225.000 | $22,700 | $76,300 | $126,000 | 9 | . . . . . | 2,815 | 31 | . . . . . |
| Connecticut | 11 | 635,408 | 52,400 | 320,100 | 262,908 | 41 | . . . . . | 3,620 | 195 | 148 |
| Illinois | 5 | 24,300 | 3,800 | 10,600 | 9,900 | 6 | . . . . . | 840 | 24 | . . . . . |
| Indiana | 10 | 83,125 | 13,725 | 24,500 | 44,900 | 17 | . . . . . | 3,923 | 74 | 20 |
| Iowa | 7 | 180,350 | 17,550 | 66,000 | 93,800 | 16 | . . . . . | 4,180 | 68 | 1 |
| Kansas | 5 | 47,600 | 2,600 | 22,000 | 23,000 | 6 | . . . . . | 2,646 | 5 | 45 |
| Maine | 7 | 126,200 | 8,500 | 31,500 | 86,200 | 25 | . . . . . | 3,830 | 62 | 16 |
| Massachusetts | 43 | 1,184,110 | 135,395 | 433,150 | 615,565 | 135 | . . . . . | 34,798 | 770 | 318 |
| Michigan | 9 | 198,056 | 16,300 | 98,151 | 81,105 | 15 | . . . . . | 1,282 | 12 | 426 |
| Missouri | 4 | 23,100 | 2,000 | 5,300 | 15,800 | 4 | . . . . . | 888 | 28 | 9 |
| New Hampshire | 9 | 121,600 | 17,200 | 51,000 | 53,400 | 10 | . . . . . | 1,760 | 52 | 50 |
| New Jersey | 5 | 255,000 | 14,300 | 46,500 | 194,200 | 8 | 3 | 4,100 | 194 | 8 |
| New York | 36 | 899,711 | 248,700 | 301,600 | 349,411 | 113 | . . . . . | 24,654 | 411 | 391 |
| North Carolina | 6 | 19,440 | 3,040 | 8,600 | 7,800 | 2 | . . . . . | 3,240 | 5 | 40 |
| Ohio | 18 | 99,100 | 12,700 | 38,700 | 47,700 | 18 | . . . . . | 4,204 | 70 | 172 |
| Pennsylvania | 47 | 1,265,460 | 177,310 | 434,050 | 654,100 | 116 | 23 | 48,124 | 630 | 56 |
| Rhode Island | 6 | 294,500 | 38,500 | 160,000 | 96,000 | 30 | . . . . . | 13,572 | 208 | 25 |
| Tennessee | 6 | 25,500 | 5,000 | 9,500 | 11,000 | 5 | . . . . . | 1,930 | 42 | 12 |
| Virginia | 5 | 29,500 | 3,100 | 14,400 | 12,000 | 6 | . . . . . | 950 | 14 | 11 |
| West Virginia | 3 | 10,200 | 2,600 | 4,900 | 2,700 | 3 | . . . . . | 600 | 18 | . . . . . |
| Wisconsin | 8 | 164,300 | 16,196 | 43,888 | 103,216 | 7 | 9 | 5,270 | 6 | 57 |
| All other states (*e*) | 13 | 195,800 | 28,300 | 72,500 | 95,000 | 20 | . . . . . | 5,408 | 94 | 16 |
| Total | 267 | $6,107,360 | $841,916 | $2,273,239 | $2,985,705 | 612 | 35 | 172,634 | 3,018 | 1,821 |

*e* Includes States in which there were less than 3 establishments, as follows. Arkansas, 1; Delaware, 1; Georgia, 1; Kentucky, 1; Maryland, 2; Minnesota, 2; Nebraska, 1; Texas, 1; Utah, 1; Vermont, 2.

## No. 44.—Active Machinery, not including Shoddy Mills.

| States. | Number of Establishments. | | Sets of Cards. | | Combing Machines. | | Spindles. | | Looms. | | Knitting Machines. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. |
| Alabama | 9 | 14 | 8 | 15 | . . . | . . . | 288 | 160 | 12 | 10 | 128 | . . . |
| Arkansas | 6 | 25 | 7 | 29 | . . . | . . . | 735 | 1,360 | 24 | 41 | . . . | 1 |
| California | 10 | 9 | 70 | 60 | . . . | . . . | 18,598 | 18,740 | 292 | 230 | 34 | 138 |
| Colorado | 2 | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | 7 | . . . |
| Connecticut | 98 | 102 | 646 | 622 | 34 | 21 | 229,982 | 191,892 | 3,640 | 3,156 | 1,205 | 1,100 |
| Delaware | 3 | 5 | 15 | 13 | . . . | . . . | 7,306 | 4,306 | 229 | 126 | . . . | . . . |
| Florida | 1 | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | 24 | . . . |
| Georgia | 18 | 32 | 22 | 42 | . . . | . . . | 4,512 | 2,224 | 119 | 88 | 225 | . . . |
| Idaho | 1 | . . . | 1 | . . . | . . . | . . . | 480 | . . . | 10 | . . . | . . . | . . . |
| Illinois | 58 | 67 | 71 | 109 | . . . | . . . | 24,569 | 21,672 | 323 | 379 | 1,527 | 441 |
| Indiana | 55 | 86 | 153 | 160 | 4 | 1 | 54,082 | 36,886 | 1,006 | 814 | 671 | 205 |
| Iowa | 17 | 37 | 36 | 56 | . . . | . . . | 10,828 | 11,025 | 158 | 166 | 19 | 19 |
| Kansas | 2 | 5 | 1 | 9 | . . . | . . . | 240 | 2,636 | 4 | 41 | 22 | 4 |
| Kentucky | 44 | 98 | 104 | 154 | 4 | . . . | 41,171 | 14,110 | 1,679 | 513 | 65 | 3 |
| Louisiana | 4 | . . . | 1 | . . . | . . . | . . . | 1,850 | . . . | 2 | . . . | 169 | . . . |
| Maine | 82 | 97 | 387 | 274 | 5 | . . . | 126,418 | 68,192 | 2,020 | 1,103 | 91 | 1 |
| Maryland | 18 | 16 | 30 | 30 | . . . | . . . | 11,150 | 6,580 | 114 | 136 | 268 | . . . |
| Massachusetts | 293 | 271 | 1,837 | 1,660 | 265 | 190 | 780,774 | 597,969 | 16,354 | 15,869 | 3,360 | 1,359 |
| Michigan | 43 | 50 | 68 | 55 | . . . | . . . | 17,239 | 11,608 | 158 | 167 | 686 | 536 |
| Minnesota | 25 | 14 | 37 | 21 | . . . | . . . | 7,510 | 3,852 | 125 | 59 | 172 | 12 |
| Mississippi | 7 | 8 | 31 | 15 | . . . | . . . | 9,196 | 3,734 | 376 | 121 | . . . | . . . |
| Missouri | 42 | 102 | 52 | 126 | . . . | . . . | 12,984 | 12,622 | 261 | 193 | 145 | 83 |
| Nebraska | 1 | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | . . . | 20 | . . . |

## Active Machinery, not including Shoddy Mills. — *Concluded.*

| States. | Number of Establishments. | | Sets of Cards. | | Combing Machines. | | Spindles. | | Looms. | | Knitting Machines. | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. | 1890. | 1880. |
| New Hampshire | 90 | 85 | 493 | 385 | 29 | 21 | 173,654 | 155,763 | 4,049 | 2,903 | 3,070 | 1,144 |
| New Jersey | 50 | 45 | 235 | 184 | 29 | 9 | 86,617 | 41,839 | 1,533 | 1,285 | 694 | 345 |
| New York | 342 | 264 | 1,403 | 1,150 | 88 | 80 | 530,904 | 269,428 | 5,103 | 3,870 | 5,607 | 1,416 |
| North Carolina | 32 | 49 | 35 | 57 | . . . . | . . . . | 11,502 | 2,374 | 169 | 30 | 136 | 1 |
| Ohio | 115 | 146 | 112 | 182 | 5 | 2 | 34,719 | 35,260 | 717 | 638 | 1,683 | 453 |
| Oregon | 6 | 10 | 21 | 21 | . . . . | . . . . | 6,252 | 4,248 | 95 | 56 | 11 | 9 |
| Pennsylvania | 706 | 654 | 1,299 | 1,155 | 191 | 124 | 592,036 | 411,647 | 22,173 | 16,991 | 14,571 | 7,342 |
| Rhode Island | 85 | 62 | 572 | 495 | 195 | 70 | 356,151 | 228,262 | 6,608 | 6,941 | 764 | 54 |
| South Carolina | 1 | 11 | 1 | 11 | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . | . . . . |
| South Dakota | 2 | . . . . | 3 | . . . . | . . . . | . . . . | 808 | . . . . | 19 | . . . . | . . . . | . . . . |
| Tennessee | 49 | 106 | 80 | 98 | . . . . | . . . . | 19,938 | 6,860 | 925 | 167 | . . . . | . . . . |
| Texas | 5 | 1 | 10 | 2 | . . . . | . . . . | 5,000 | 600 | 175 | 12 | . . . . | . . . . |
| Utah | 14 | 11 | 31 | 21 | . . . . | . . . . | 7,960 | 5,422 | 99 | 114 | 73 | . . . . |
| Vermont | 39 | 50 | 157 | 167 | . . . . | . . . . | 51,423 | 50,069 | 682 | 746 | 221 | 69 |
| Virginia | 38 | 48 | 60 | 54 | . . . . | . . . . | 14,398 | 8,486 | 212 | 154 | 56 | . . . . |
| Washington | 1 | 1 | . . . . | 2 | . . . . | . . . . | . . . . | 400 | . . . . | 12 | 6 | . . . . |
| West Virginia | 32 | 56 | 42 | 72 | . . . . | . . . . | 7,404 | 8,081 | 153 | 179 | 10 | 15 |
| Wisconsin | 57 | 52 | 69 | 75 | 6 | . . . . | 27,602 | 16,689 | 258 | 220 | 1,184 | 19 |
| Total | 2,503 | 2,689 | 8,200 | 7,581 | 855 | 518 | 3,286,280 | 2,254,996 | *a* 69,876 | *b* 57,530 | 36,924 | 14,769 |

*a* Includes 3,105 hand looms.

*b* Includes 4,776 hand looms.

## No. 45.—Detailed Statement of Materials Consumed, 1880-1890.

| Industries. | | Number of Establishments. | Wool. | | | | Shoddy. | | Camel's Hair and Noils. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | Foreign Wool in Condition Purchased. (*Pounds.*) | Domestic Wool in Condition Purchased. (*Pounds.*) | Total Quantity of Foreign and Domestic Wool in Scoured Pounds as Prepared for Cards. (*Pounds.*) | Total Cost of Foreign and Domestic Wool. | *Pounds.* | *Cost.* | *Pounds.* | *Cost.* |
| Total | 1890 | 2,503 | 114,116,612 | 258,757,101 | 215,001,813 | $98,566,004 | 61,626,261 | $6,935,459 | 7,689,804 | $1,251,367 |
| | 1880 | 2,689 | 73,200,698 | 222,991,531 | 171,880,831 | 97,681,604 | 52,163,926 | 8,045,895 | 1,583,119 | 401,789 |
| Mills. | | | | | | | | | | |
| Woolen | 1890 | 1,312 | 16,822,138 | 168,525,806 | 100,246,094 | 48,867,811 | 51,862,397 | 5,398,617 | 1,781,240 | 289,970 |
| | 1880 | 1,990 | 20,482,667 | 177,042,288 | 109,724,213 | 67,380,250 | 46,583,983 | 7,014,100 | 1,234,064 | 332,419 |
| Worsted | 1890 | 143 | 37,869,023 | 59,832,451 | 54,989,746 | 28,280,287 | 2,608,831 | 347,006 | 4,411,543 | 672,392 |
| | 1880 | 76 | 15,687,815 | 25,461,511 | 26,334,635 | 15,235,878 | 190,800 | 31,300 | 207,065 | 40,341 |
| Felt | 1890 | 34 | 1,689,588 | 5,039.495 | 4,213,230 | 1,841.382 | 1,450,384 | 179,505 | 68,250 | 3,071 |
| | 1880 | 26 | 709,067 | 4,204,806 | 2,733,796 | 1,624,871 | 2,406,849 | 383,267 | 70,000 | 7,500 |
| Wool hats | 1890 | 32 | 259,325 | 4,278,628 | 3,018,114 | 1,448,799 | 306,351 | 85,963 | 11,688 | 5,610 |
| | 1880 | 43 | 1,864,139 | 6,107,471 | 3,597,279 | 2,644,293 | 1,368,562 | 370,963 | 3,911 | 1,875 |
| Carpets, other than rag, | 1890 | 175 | 54,742,234 | 2,145,632 | 35,733,137 | 9,85-,307 | 653,154 | 43,420 | 1,001,929 | 140,175 |
| | 1880 | 195 | 34,008,252 | 2,029,318 | 23.563.216 | 6,975,129 | 90,469 | 12,442 | 46,300 | 8,808 |
| Hosiery and knit goods, | 1890 | 807 | 2,734,304 | 18,935,089 | 16,801,492 | 8,269,418 | 4,745,144 | 880,948 | 415,154 | 140,149 |
| | 1880 | 359 | 448,758 | 8,146,137 | 5,927,692 | 3,821,183 | 1,523,263 | 233,823 | 21,779 | 10,846 |

## Detailed Statement of Materials Consumed, 1880-1890. — *Concluded.*

| Industries. | | Mohair and Noils. | | All Other Animal Hair. | | Cotton Purchased. | | Chemicals and Dye Stuffs. | Fuel. | Cost of all other Materials, Including Yarns Purchased. | Total Cost of all Materials. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | *Pounds.* | *Cost.* | *Pounds.* | *Cost.* | *Pounds.* | *Cost.* | (*Cost.*) | (*Cost.*) | | |
| Total | 1890 | 2,136,244 | $848,533 | 16,865,764 | $1,153,997 | 75,638,865 | $8,590,999 | $9,150,217 | $3,894,492 | $72,704,574 | $203,095,642 |
| | 1880 | 159,678 | 86,995 | 6,335,169 | 295,870 | 48,000,857 | 6,233,175 | 7,648,618 | 2,809,192 | 41,168,413 | 164,371,551 |
| Mills. | | | | | | | | | | | |
| Woolen | 1890 | 60,533 | 15,991 | 9,619,277 | 493,492 | 37,158,712 | 4,213,527 | 4,602,765 | 1,711,169 | 16,591,324 | 82,184,666 |
| | 1880 | 84,080 | 50,837 | 4,497,524 | 238,046 | 24,744,964 | 3,395,569 | 4,758,498 | 1,832,703 | 15.843,189 | 100,845,611 |
| Worsted | 1890 | 2,038,732 | 824,869 | 1,083,690 | 120,585 | 3,881,743 | 438,637 | 2,037,729 | 1,048,245 | 16,874,592 | 50,644,342 |
| | 1880 | 31,598 | 19,458 | 519 | 237 | 1,757,842 | 211,293 | 565,660 | 314,918 | 5,594,543 | 22,013,628 |
| Felt | 1890 | . . . . . | . . . . | 2,355,928 | 48,301 | 395,032 | 37,133 | 169,522 | 92,551 | 437,722 | 2,809,187 |
| | 1880 | . . . . . | . . . . | 1,728,000 | 45,850 | 1,181,500 | 114,660 | 150,921 | 77,437 | 126,204 | 2,530,710 |
| Wool hats | 1890 | 4,508 | 2,130 | 147,600 | 113,878 | . . . . . | . . . . . | 159,700 | 84,904 | 898,807 | 2,799,791 |
| | 1880 | . . . . . | . . . . | 7,436 | 3,615 | 185,400 | 21,870 | 173,040 | 110,985 | 1.459,133 | 4,785,774 |
| Carpets, other than rag | 1890 | 32,302 | 5,456 | 3,645,096 | 373,823 | 1,755,761 | 187,637 | 1,265,267 | 447,517 | 16,327,429 | 28,649,031 |
| | 1880 | 4,000 | 700 | 96,540 | 7,604 | . . . . . | . . . . . | 1,369,439 | 263,480 | 10,347,275 | 18,984,877 |
| Hosiery and knit goods | 1890 | 169 | 87 | 14,173 | 3,918 | 32,447,617 | 3,714,065 | 915,234 | 510.106 | 21,574,700 | 36,008,625 |
| | 1880 | 40,000 | 16,000 | 5,150 | 518 | 20,131,151 | 2,489,783 | 631,060 | 209,669 | 7,798,069 | 15,210,951 |

## No. 46.—The Manufacture of Shoddy, 1890.

| States. | | Number Mills. | Total Capital. | Hands Employed. Total. | Total Amount Paid in Wages. | Miscellaneous Expenses. | Number Cards. | Cost of Materials. | Shoddy and Mungo. Pounds. | Shoddy and Mungo. Value. | Value of all other Products. | Total Value of all Products. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| United States | 1890 | 93 | $4,091,207 | 2,266 | $840,259 | $234,327 | 470 | $5,875,382 | 35,502,054 | $5,735,934 | $1,975,781 | $7,711,715 |
| | 1880 | 73 | 1,165,100 | 1,282 | 400,326 | . . . . . | . . . . | 3,366,650 | . . . . . | . . . . . | . . . . . | 4,989,615 |
| Connecticut | 1890 | 7 | 401,986 | 180 | 85,816 | 26,399 | 47 | 442,552 | 2,398,000 | 390,760 | 257,300 | 648,060 |
| | 1880 | 8 | 86,000 | 139 | 35,345 | . . . . . | . . . . | 261,200 | . . . . . | . . . . . | . . . . . | 347,500 |
| Illinois | 1890 | 3 | 118,037 | 114 | 36,254 | 11,744 | 12 | 103,588 | 2,528,616 | 167,607 | 14,503 | 182,110 |
| | 1880 | 2 | 22,000 | 31 | 12,300 | . . . . . | . . . . | 74,500 | . . . . . | . . . . . | . . . . . | 100,000 |
| Maine (*a*) | 1880 | 1 | 6,000 | 8 | 1,905 | . . . . . | . . . . | 7,200 | . . . . . | . . . . . | . . . . . | 12,000 |
| Maryland | 1880 | 1 | 5,000 | 15 | 3,100 | . . . . . | . . . . | 14,150 | . . . . . | . . . . . | . . . . . | 22,500 |
| Massachusetts | 1890 | 29 | 939,050 | 435 | 180,748 | 63,475 | 167 | 1,170,080 | 10,018,424 | 1,418,817 | 195,642 | 1,614,459 |
| | 1880 | 30 | 460,500 | 471 | 173,439 | . . . . . | . . . . | 1,308,715 | . . . . . | . . . . . | . . . . . | 2,305,985 |
| New Hampshire | 1890 | 3 | 33,463 | 25 | 11,683 | 1,795 | 12 | 86,816 | 911,763 | 111,848 | . . . . . | 111,848 |
| | 1880 | 3 | 17,300 | 23 | 5,700 | . . . . . | . . . . | 38,900 | . . . . . | . . . . . | . . . . . | 49,600 |
| New Jersey | 1890 | 4 | 353,225 | 127 | 43,755 | 20,650 | 19 | 300,613 | 1,252,000 | 315,640 | 74,000 | 389,640 |
| | 1880 | 1 | 35,000 | 30 | 25,000 | . . . . . | . . . . | 80,734 | . . . . . | . . . . . | . . . . . | 137,500 |
| New York | 1890 | 12 | 489,020 | 192 | 77,361 | 12,540 | 36 | 342,112 | 2,616,000 | 383,200 | 88,278 | 471,478 |
| | 1880 | 7 | 32,700 | 78 | 33,610 | . . . . . | . . . . | 321,220 | . . . . . | . . . . . | . . . . . | 407,590 |
| Ohio | 1890 | 3 | 756,530 | 696 | 182,700 | 28,266 | 43 | 1,100,480 | 4,800,000 | 1,377,500 | . . . . . | 1,377,500 |
| | 1880 | 1 | 250,000 | 246 | 40,000 | . . . . . | . . . . | 575,000 | . . . . . | . . . . . | . . . . . | 700,000 |
| Pennsylvania | 1890 | 17 | 663,813 | 306 | 134,852 | 42,029 | 62 | 1,082,114 | 8,007,875 | 1,191,378 | 267,107 | 1,458,485 |
| | 1880 | 11 | 186,000 | 143 | 47,441 | . . . . . | . . . . | 510,977 | . . . . . | . . . . . | . . . . . | 655,895 |
| Rhode Island | 1890 | 10 | 256,750 | 146 | 68,014 | 23,578 | 58 | 1,163,935 | 1,711,000 | 274,741 | 1,076,051 | 1,350,792 |
| | 1880 | 6 | 49,600 | 83 | 18,590 | . . . . . | . . . . | 137,054 | . . . . . | . . . . . | . . . . . | 195,045 |
| Vermont (*a*) | 1880 | 2 | 15,000 | 15 | 3,896 | . . . . . | . . . . | 37,000 | . . . . . | . . . . . | . . . . . | 56,000 |
| All other States (*a*) | 1890 | 5 | 79,333 | 45 | 19,076 | 3,851 | 14 | 83,092 | 1,258,376 | 104,443 | 2,900 | 107,343 |

*a* Includes States in which there were less than three establishments in order that the operations of individual establishments may not be disclosed. These establishments were located as follows: California, 1; Maine, 2; Vermont, 1; Wisconsin, 1.

## No. 47.—Importation of Colonial and Foreign Wool into Great Britain from 1881 to 1891.

HELMUTH SCHWARTZE & Co.

| | 1891. | 1890. | 1889. | 1888. | 1887. | 1886. | 1885. | 1884. | 1883. | 1882. | 1881. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| New South Wales . . | 353,407 | 274,448 | 306,091 | 321,154 | 245,290 | 265,181 | 217,119 | 241,277 | 234,659 | 230,284 | 206,226 |
| Queensland* . . . . | 173,558 | 144,093 | 126,637 | 122,867 | 106,614 | 84,065 | 104,361 | 99,974 | 60,858 | 54,093 | 39,362 |
| Victoria . . . . . | 365,490 | 365,172 | 372,057 | 380,330 | 346,396 | 360,731 | 317,152 | 358,228 | 336,518 | 364,041 | 355,524 |
| South Australia . . . | 120,665 | 98,249 | 111,236 | 115,849 | 106,403 | 130,628 | 115,108 | 118,357 | 108,487 | 122,167 | 112,827 |
| Tasmania . . . . . | 25,855 | 23,537 | 22,035 | 20,167 | 22,261 | 21,463 | 21,681 | 24,415 | 24,038 | 23,429 | 23,826 |
| Western Australia . . | 26,933 | 27,949 | 22,897 | 19,382 | 17,656 | 16,862 | 14,427 | 13,204 | 11,208 | 11,615 | 11,217 |
| New Zealand . . . . | 315,055 | 292,724 | 277,726 | 265,684 | 272,918 | 260,912 | 237,875 | 228,900 | 215,024 | 194,102 | 182,907 |
| Australasian . . . . . | 1,380,963 | 1,226,172 | 1,238,679 | 1,245,433 | 1,116,538 | 1,139,842 | 1,027,723 | 1,084,355 | 990,792 | 999,731 | 931,889 |
| Cape . . . . . | 316,510 | 283,494 | 287,334 | 288,910 | 234,728 | 227,289 | 182,168 | 189,377 | 187,368 | 191,113 | 194,133 |
| Colonial . . . . . | 1,697,473 | 1,509,666 | 1,526,013 | 1,534,343 | 1,351,266 | 1,367,131 | 1,209,891 | 1,273,732 | 1,178,160 | 1,190,844 | 1,126,022 |
| German . . . . . | 3,335 | 4,592 | 7,358 | 5,356 | 9,589 | 12,005 | 9,700 | 10,045 | 16,138 | 10,297 | 9,049 |
| Portuguese and Spanish . . . . . | 8,941 | 13,538 | 21,558 | 18,157 | 16,385 | 24,355 | 7,731 | 7,598 | 10,683 | 10,849 | 8,221 |
| East India . . . . . | 104,310 | 103,342 | 113,518 | 105,240 | 100,646 | 101,770 | 83,595 | 75,061 | 78,708 | 83,562 | 72,759 |
| Persian . . . . . | 29,457 | 22,328 | 27,350 | 28,930 | 23,299 | 16,755 | 10,104 | 15,680 | 7,486 | 8,444 | 11,425 |
| Russian . . . . . | 96,205 | 65,506 | 106,263 | 59,802 | 66,422 | 65,027 | 63,368 | 48,635 | 56,212 | 44,201 | 36,494 |
| River Plate . . . . . | 9,145 | 6,310 | 11,885 | 10,350 | 7,016 | 12,440 | 8,728 | 4,303 | 5,690 | 5,868 | 2,324 |
| Peru, Lima, and Chili . | 30,328 | 30,059 | 32,410 | 27,096 | 35,576 | 23,209 | 31,270 | 54,336 | 10,690 | 39,466 | 24,679 |
| Alpaca . . . . . | 31,740 | 27,441 | 34,637 | 29,139 | 34,366 | 26,718 | 34,421 | 67,133 | 13,576 | 38,872 | 19,500 |
| Mediterranean and African . . . . . | 64,795 | 74,237 | 88,395 | 78,980 | 88,371 | 62,678 | 33,127 | 20,874 | 36,799 | 36,957 | 21,956 |
| Mohair . . . . . | 62,993 | 48,131 | 77,526 | 72,767 | 56,005 | 76,690 | 52,457 | 66,873 | 55,895 | 66,202 | 35,937 |
| Sundry . . . . . | 47,433 | 36,736 | 44,981 | 32,800 | 24,369 | 30,404 | 25,325 | 15,333 | 18,423 | 17,809 | 28,026 |
| Total Bales . . . . | 2,186,155 | 1,941,886 | 2,091,894 | 2,002,960 | 1,813,310 | 1,819,182 | 1,569,717 | 1,659,603 | 1,488,460 | 1,553,371 | 1,396,392 |

* Partly included in New South Wales prior to 1884.

## No. 48. — Importation of Colonial Wool into Europe and America, 1860–1891.

(*With approximate average value per bale.*)

HELMUTH SCHWARTZE & Co.

| YEAR. | Australasian bales. | Cape bales. | Total Colonial bales. | Average value per bale. | Total value. | |
|---|---|---|---|---|---|---|
| 1860 . | 187,000 | 79,000 | 266,000 | £25¾ | £6,850,000 | |
| 1861 . | 212,000 | 84,000 | 296,000 | 23¼ | 6,882,000 | £7,000,000 |
| 1862 . | 227,000 | 82,000 | 309,000 | 22⅜ | 7,030,000 | period. |
| 1863 . | 242,000 | 94,000 | 336,000 | 22⅝ | 7,644,000 | |
| 1864 . | 302,000 | 113,000 | 415,000 | 24¾ | 10,271,000 | |
| 1865 . | 334,000 | 109,000 | 443,000 | 23¾ | 10,521,000 | |
| 1866 . | 351,000 | 128,000 | 479,000 | 24½ | 11,735,000 | |
| 1867 . | 414,000 | 135,000 | 549,000 | 20¾ | 11,392,000 | £11,000,000 |
| 1868 . | 483,000 | 156,000 | 639,000 | 18½ | 11,822,000 | period. |
| 1869 . | 504,000 | 153,000 | 657,000 | 15¾ | 10,348,000 | |
| 1870 . | 546,000 | 152,000 | 698,000 | 16¾ | 11,691,000 | |
| 1871 . | 573,000 | 186,000 | 759,000 | 20½ | 15,560,000 | Year of |
| 1872 . | 554,000 | 189,000 | 743,000 | 26⅓ | 19,690,000 | transition. |
| 1873 . | 571,000 | 176,000 | 747,000 | 24¼ | 18,115,000 | |
| 1874 . | 659,000 | 170,000 | 829,000 | 23¼ | 19,274,000 | |
| 1875 . | 720,000 | 197,000 | 917,000 | 22¼ | 20,403,000 | |
| 1876 . | 769,000 | 167,000 | 936,000 | 18¾ | 17,550,000 | |
| 1877 . | 835,000 | 186,000 | 1,021,000 | 18¾ | 19,144,000 | |
| 1878 . | 801,000 | 169,000 | 970,000 | 18¾ | 18,187,000 | |
| 1879 . | 826,000 | 189,000 | 1,015,000 | 16½ | 16,748,000 | |
| 1880 . | 869,000 | 219,000 | 1,088,000 | 20¼ | 22,032,000 | £20,000,000 |
| 1881 . | 957,000 | 204,000 | 1,161,000 | 17⅓ | 20,027,000 | period. |
| 1882 . | 993,000 | 197,000 | 1,190,000 | 17½ | 20,825,000 | |
| 1883 . | 1,054,000 | 199,000 | 1,253,000 | 16¾ | 20,988,000 | |
| 1884 . | 1,112,000 | 191,000 | 1,303,000 | 16 | 20,848,000 | |
| 1885 . | 1,094,000 | 188,000 | 1,282,000 | 14 | 17,948,000 | |
| 1886 . | 1,196,000 | 236,000 | 1,432,000 | 13½ | 19,332,000 | |
| 1887 . | 1,207,000 | 237,000 | 1,444,000 | 14 | 20,216,000 | |
| 1888 . | 1,315,000 | 289,000 | 1,604,000 | 13½ | 21,654,000 | |
| 1889 . | 1,385,000 | 310,000 | 1,695,000 | 15½ | 26,272,000 | £26,000,000 |
| 1890 . | 1,411,000 | 288,000 | 1,699,000 | 14¾ | 25,060,000 | period. |
| 1891 . | 1,683,000 | 322,000 | 2,005,000 | 13½ | 27,067,000 | |

## GREAT BRITAIN.

**No. 49.—Foreign and Colonial Wool, Alpaca, Mohair, etc., Imported.**

*Bradford Observer.*

| Year. | Total Imports of Wool, Alpaca and Goat's Hair. | Re-Exported. | Left for Home Consumption. |
|---|---|---|---|
| | *Lbs* | *Lbs.* | *Lbs.* |
| 1844 | 67,004,532 | 1,972,674 | 65,031,858 |
| 1845 | 78,055,478 | 2,662,353 | 75,393,125 |
| 1846 | 66,542,782 | 3,011,980 | 63,530,802 |
| 1847 | 63,893,047 | 4,809,725 | 59,083,322 |
| 1848 | 71,761,712 | 6,555,584 | 65,186,128 |
| 1849 | 79,304,782 | 12,450,497 | 66,854,285 |
| 1850 | 77,132,483 | 14,388,674 | 62,743,809 |
| 1851 | 85,436,575 | 13,729,987 | 71,706,588 |
| 1852 | 96,325,788 | 11,316,933 | 85,008,855 |
| 1853 | 122,648,255 | 11,725,369 | 110,922,886 |
| 1854 | 107,457,314 | 24,509,263 | 82,948,051 |
| 1855 | 102,228,857 | 29,453,466 | 72,775,391 |
| 1856 | 119,124,230 | 26,679,793 | 92,444,437 |
| 1857 | 133,004,908 | 36,487,219 | 96,517,689 |
| 1858 | 130,528,985 | 26,701,542 | 103,827,443 |
| 1859 | 135,786,468 | 29,106,750 | 106,679,718 |
| 1860 | 151,218,057 | 30,761,867 | 120,456,190 |
| 1861 | 150,507,589 | 54,377,104 | 96,130,485 |
| 1862 | 175,991,342 | 48,076,499 | 127,914,843 |
| 1863 | 180,812,369 | 63,932,929 | 116,879,440 |
| 1864 | 211,210,375 | 55,933,739 | 155,276,636 |
| 1865 | 217,609,360 | 82,444,930 | 135,164,430 |
| 1866 | 243,751,351 | 66,573,488 | 177,177,863 |
| 1867 | 236,351,544 | 90,832,584 | 145,518,960 |
| 1868 | 259,810,928 | 105,070,311 | 154,740,617 |
| 1869 | 262,947,255 | 116,608,305 | 146,338,950 |
| 1870 | 266,329,005 | 92,542,384 | 173,786,621 |
| 1871 | 331,851,663 | 134,866,304 | 196,985,359 |
| 1872 | 312,784,154 | 137,511,247 | 175,272,907 |
| 1873 | 324,524,961 | 123,246,172 | 201,278,789 |
| 1874 | 352,425,555 | 144,294,663 | 208,130,892 |
| 1875 | 371,863,795 | 172,075,439 | 199,788,356 |
| 1876 | 396,044,232 | 173,020,372 | 223,023,860 |
| 1877 | 418,164,188 | 187,418,627 | 230,745,561 |
| 1878 | 406,510,344 | 199,286,544 | 207,223,800 |
| 1879 | 427,182,799 | 243,386,008 | 183,796,791 |
| 1880 | 476,088,461 | 237,391,454 | 238,697,007 |
| 1881 | 459,732,216 | 265,359,848 | 194,372,368 |
| 1882 | 504,865,869 | 263,441,171 | 241,424,698 |
| 1883 | 508,830,138 | 277,181,337 | 231,648,801 |
| 1884 | 544,231,130 | 276,893,151 | 267,337,979 |
| 1885 | 519,867,000 | 267,668,000 | 252,199,000 |
| 1886 | 614,983,000 | 310,388,000 | 304,595,000 |
| 1887 | 596,950,000 | 319,098,000 | 277,852,000 |
| 1888 | 661,907,000 | 338,927,000 | 322,980,000 |
| 1889 | 721,701,000 | 363,435,000 | 358,266,000 |
| 1890 | 649,908,000 | 340,502.000 | 309,406,000 |
| 1891 | * 693,397,130 | * 341,494,296 | * 351,902,834 |

* 11 months only.

## No. 50.—Imports of other Wools into Great Britain.

HELMUTH SCHWARTZE & Co.

| | Bales. | | | Prices in London. | | |
|---|---|---|---|---|---|---|
| | 1891. | 1890. | 1889. | Dec. 1891. | Dec. 1890. | Dec. 1889. |
| | | | | D. | D. | D. |
| China | 13,100 | 8,200 | . . . . . | 5½ | 5¾ | 5¾ |
| " Cashmere | 2,200 | 1,806 | . . . . . | 17½ | 22 | 15 |
| " Camel's hair | 4,000 | 4,000 | . . . . . | 6 | 6½ | 7 |
| Chili and Peru | 30,328 | 30,059 | 32,410 | | | |
| Peru super fleece | . . . . . | . . . . . | . . . . . | 9½ | 10½ | 10½ |
| " middling fleece | . . . . . | . . . . . | . . . . . | 7¾ | 8½ | 8½ |
| Lima unwashed | . . . . . | . . . . . | . . . . . | 6¼ | 7¼ | 8¼ |
| Russian | 96,205 | 65,506 | 106,263 | 7 | 7¼ | 7½ |
| " Camel's hair | 13,500 | 12,000 | 22,000 | 4⅛ | 4¼ | 5 |
| Persian | 29,457 | 22,328 | 27,350 | | | |
| " White and colors | . . . . . | . . . . . | . . . . . | 7 | 6½ | 7 |
| " White alone | . . . . . | . . . . . | . . . . . | 7½ | 7½ | 7½ |
| Portuguese | 7,188 | 7,684 | 11,110 | 8½ | 9½ | 9½ |
| Spanish | 1,753 | 5,854 | 10,448 | 8½ | 9½ | 9½ |
| Mediterranean. Morocco | 9,563 | 13,602 | 9,044 | 8½ | 8¼ | 8½ |
| Turkey | 49,036 | 55,201 | 70,841 | 7 | 7¼ | 7¾ |
| Egyptian | 3,702 | 4,376 | 5,752 | 9¼ | 10¼ | 10¼ |
| East India | 104,310 | 103,342 | 113,518 | | | |
| Joria best white | . . . . . | . . . . . | . . . . . | 10 | 10¾ | 11½ |
| Candahar best white | . . . . . | . . . . . | . . . . . | 8 | 9¼ | 9¾ |
| River Plate | 2,931 | 3,528 | 5,687 | | | |
| Alpaca (super Isleey fleece) | 31,740 | 27,441 | 34,637 | 12½ | 15 | 22 |
| Mohair. Turkish (fair average) | 41,102 | 27,463 | 56,972 | 12¾ | 14 | 19 |
| Cape (first) | 21,891 | 20,668 | 20,554 | 10½ | 10½ | 15 |

**No. 51.—Number of Sheep in Great Britain, Pounds of Wool Grown, Exported, and Left for Home Consumption, 1871-91.**

*Bradford Observer.*

| Number of Sheep in the United Kingdom, Isle of Man, and Channel Islands. | | Home-grown Wool. | | | |
|---|---|---|---|---|---|
| | | Year. | Production. | Exportation. | Left for Home Consumption. |
| | | | *Lbs.* | *Lbs.* | *Lbs.* |
| 1873 | 33,982,404 | 1873 | 165,350,472 | 7,034,735 | 158,315,737 |
| 1874 | 34,837,597 | 1874 | 167,042,379 | 10,077,619 | 156,964,760 |
| 1875 | 33,491,948 | 1875 | 161,782,536 | 10,536,523 | 151,246,013 |
| 1876 | 32,262,579 | 1876 | 155,835,320 | 9,817,249 | 146,018,071 |
| 1877 | 32,220,067 | 1877 | 152,172,010 | 9,548,999 | 142,623,011 |
| 1878 | 32,571,018 | 1878 | 151,700,736 | 6,618,200 | 145,082,536 |
| 1879 | 32,237,958 | 1879 | 153,233,696 | 15,703,900 | 137,529,796 |
| 1880 | 30,239,620 | 1880 | 148,729,061 | 17,177,200 | 131,551,861 |
| 1881 | 27,896,273 | 1881 | 138,574,672 | 14,076,300 | 124,498,372 |
| 1882 | 27,449,500 | 1882 | 129,006,659 | 13,879,200 | 115,127,459 |
| 1883 | 28,347,560 | 1883 | 128,338,115 | 19,440,900 | 108,897,215 |
| 1884 | 29,376,787 | 1884 | 132,410,620 | 18,128,800 | 114,281,820 |
| 1885 | 30,086,200 | 1885 | 136,130,382 | 23,454,000 | 112,676,382 |
| 1886 | 28,955,240 | 1886 | 136,544,876 | 22,248,000 | 114,296,876 |
| 1887 | 29,401,750 | 1887 | 133,809,882 | 19,554,000 | 114,255,882 |
| 1888 | 28,938,716 | 1888 | 133,623,281 | 23,583,000 | 110,040,281 |
| 1889 | 29,484,774 | 1889 | 132,772,200 | 21,768,000 | 111,004,200 |
| 1890 | 31,667,195 | 1890 | 137,724,700 | 19,496,000 | 118,724,700 |
| 1891 | 33,533,988 | 1891 | 147,474,238 | *17,000,000 | 130,474,238 |

* Estimated. 11 months = 15,616,400 lbs.

## No. 52.—Estimate of Wool grown in Great Britain in 1891.

(*Bradford Observer.*)

| County. | Sheep and Lambs, 1890. | Weight per fleece. *Pounds.* | Total. *Pounds.* |
|---|---|---|---|
| Lincoln | 1,293,152 | 9½ | 12,284,944 |
| East Riding, Yorks | 483,338 | 8 | 3,866,704 |
| Nottingham | 231,417 | 7½ | 1,735,627 |
| Leicester | 344,572 | 7 | 2,412,004 |
| Warwick | 306,913 | 7 | 2,148,391 |
| Kent | 916,214 | 7 | 6,413,498 |
| Huntingdon | 118,208 | 7 | 827,456 |
| Rutland | 86,382 | 7 | 604,674 |
| Northampton | 429,050 | 6¾ | 2,896,087 |
| Oxford | 266,594 | 6¾ | 1,799,509 |
| Gloucester | 375,712 | 7 | 2,629,984 |
| Somerset | 596,637 | 7 | 4,176,459 |
| Devon | 913,562 | 7 | 6,394,934 |
| Cornwall | 442,140 | 7 | 3,094,980 |
| Ireland | 4,323,805 | 6 | 25,942,830 |
| Hereford | 326,347 | 5¾ | 1,876,495 |
| Worcester | 179,794 | 5¾ | 1,033,813 |
| Stafford | 274,698 | 5¾ | 1,579,513 |
| Shropshire | 479,880 | 6 | 2,879,280 |
| Bedford | 121,994 | 6 | 731,964 |
| Berkshire | 231,322 | 6 | 1,387,932 |
| Buckingham | 213,533 | 6 | 1,281,198 |
| Cambridge | 259,426 | 6 | 1,556,556 |
| Herts | 146,848 | 6 | 881,088 |
| Norfolk | 595,014 | 6 | 3,570,084 |
| Suffolk | 427,750 | 5 | 2,138,750 |
| Essex | 313,787 | 4½ | 1,412,041 |
| Surrey | 80,575 | 4½ | 362,587 |
| Middlesex | 21,358 | 5 | 106,790 |
| Sussex | 503,829 | 4½ | 2,267,230 |
| Hants | 443,658 | 4½ | 1,996,461 |
| Wilts | 613,399 | 4½ | 2,760,295 |
| Dorset | 418,945 | 5 | 2,094,725 |
| Scotland | 7,361,461 | 5 | 36,807,305 |
| Northumberland | 1,002,9-8 | 6 | 6,017,568 |
| Cumberland | 562,252 | 6 | 3,373,512 |
| Durham | 224,504 | 6 | 1,347,024 |
| Westmoreland | 359,787 | 6 | 2,158 722 |
| North Riding, Yorks | 710,643 | 6 | 4,263,858 |
| West Riding, Yorks | 685,167 | 6 | 4,111,002 |
| Lancaster | 330,333 | 6 | 1,981,998 |
| Derby | 202,897 | 6 | 1,217,382 |
| Chester | 106,418 | 4½ | 478,881 |
| Monmouth | 200,311 | 4½ | 901,399 |
| Wales | 3,069,710 | 3½ | 10,743,985 |
| Sheep and Lambs in 1890 | 31,596,264 | | 180,547,819 |
| Slaughtered | 11,024,527 | @ 3 | 33,073,581 |
| Net Clip of Wool in 1891 | | | 147,474,238 |
| " " " 1890 | | | 137,724,700 |

NOTE.—The Sheep and Lambs of 1890 produce the Wool of 1891. The number slaughtered during the year is shown by the number of Lambs in 1891, minus the aggregate increase of Sheep and Lambs. Thus: Lambs, in 1891, 12,883,212—increase of Sheep and Lambs, 1,858,685=11,024,527, which at 3 pounds per fleece, being the estimated loss of wool, gives 33,073,581 pounds. The figures in the above estimate are exclusive of the Isle of Man and Channel Islands

## No. 53.—London Colonial Wool Sales, 1891.

H. Schwartze & Co.

| | 1st Series. | 2d Series. | 3d Series. | 4th Series. | 5th Series. | Total, 1891. | Total, 1890. | Total, 1889. |
|---|---|---|---|---|---|---|---|---|
| Sydney, bales | 106,434 | 68,338 | 95,995 | 98,025 | 53,171 | 421,963 | 308,126 | 324,769 |
| Queensland, bales | 40,589 | 38,364 | 18,075 | 36,037 | 37,205 | 170,270 | 117,766 | 137,673 |
| Port Phillip, bales | 87,408 | 57,754 | 47,125 | 45.842 | 39,315 | 277,444 | 252,588 | 247,308 |
| Adelaide, bales | 34,160 | 29,092 | 23,422 | 4,093 | 20,295 | 111,062 | 72,649 | 89,094 |
| Tasmania, bales | 328 | 5,578 | 12,316 | 8,415 | 1,020 | 27,657 | 25,029 | 23,142 |
| Swan River, bales | 3,584 | 4,465 | 14,513 | 4,013 | 1,930 | 28,505 | 26,976 | 23,539 |
| New Zealand, bales | 15,612 | 48,706 | 115,282 | 111,649 | 23,666 | 314,915 | 279,450 | 265,822 |
| Australasian, bales | 288,115 | 252,297 | 326,728 | 308,074 | 176,602 | 1,351,816 | 1,082,584 | 1,111,347 |
| Cape, bales | 40,335 | 31,995 | 26,556 | 39,960 | 22,074 | 160,920 | 189,605 | 172,033 |
| Colonial catalogued, bales | 328,450 | 284,292 | 353,284 | 348,034 | 198,676 | 1,512,736 | 1,272,189 | 1,283,380 |
| Actually sold (of first-hand wools) | 320,000 | 274,000 | 333,000 | 317,000 | 180,000 | 1,433,000 | 1,171,000 | 1,236,000 |
| Home consumption — Forwarded direct | 25,000 | 42,000 | 41,000 | 27,000 | 11,000 | 146,000 | 143,000 | 132,000 |
| Home consumption — Bought in P. sale | 120,000 | 119,000 | 161,000 | 187,000 | 69,000 | 656,000 | 522,000 | 569,000 |
| Home consumption — Total | 145,000 | 161,000 | 202,000 | 214,000 | 80,000 | 802,000 | 665,000 | 701,000 |
| Export — Forwarded direct | 27,000 | 32,000 | 28,000 | 41,000 | 7,000 | 135,000 | 128,000 | 198,000 |
| Export — Bought in P. sale | 200,000 | 155,000 | 172,000 | 130,000 | 120,000 | 777,000 | 649,000 | 667,000 |
| Export — Total | 227,000 | 187,000 | 200,000 | 171,000 | 127,000 | 912,000 | 777,000 | 865,000 |
| Total deliveries (of first-hand wools), bales | 372,000 | 348,000 | 402,000 | 385,000 | 207,000 | 1,714,000 | 1,442,000 | 1,566,000 |

## No. 54. — Liverpool Wool Sales, 1891.

H. Schwartze & Co.

| | 1st Series. | 2d Series. | 3d Series. | 4th Series. | 5th Series. | 6th Series. | Total, 1891. | Total, 1890. | Total, 1889. |
|---|---|---|---|---|---|---|---|---|---|
| East India, bales | 18,899 | 19,759 | 25,161 | 20,189 | 22,229 | 15,893 | 122,130 | 114,587 | 129,297 |
| Turkish, Syrian, and Persian, bales | 2,471 | 2,353 | 3,381 | 3,473 | 2,195 | 2,356 | 16,229 | 22,735 | 24,560 |
| Egyptian, bales | 844 | 822 | 1,184 | 826 | 718 | 834 | 5,228 | 5,646 | 8,058 |
| Morocco, bales | 1,965 | 999 | 790 | 1,162 | 2,406 | 1,988 | 9,310 | 9,621 | 7,460 |
| Portuguese and Spanish, bales | 1,108 | 982 | 1,421 | 1,217 | 1,631 | 1,855 | 8,214 | 10,463 | 14,131 |
| River Plate, bales | 1,304 | . . . . . | 63 | 90 | 49 | 64 | 1,570 | 689 | 2,345 |
| Peru, Lima, and Chili, bales | 6,280 | 4,139 | 840 | 750 | 4,646 | 6,338 | 22,993 | 24,342 | 16,835 |
| Sundries | 3,486 | 1,592 | 3,256 | 2,673 | 1,050 | 2,408 | 14,465 | 17,385 | 11,696 |
| Total catalogued, bales | 36,357 | 30,646 | 36,096 | 30,380 | 34,924 | 31,736 | 200,139 | 205,468 | 214,582 |

### The London Colonial Sales.

*First Series, Jan. 27-Feb. 26.* — Price level generally maintained as at close of previous sales.

*Second Series, April 2-28.* — No material change in average condition of market. Good Port Phillip and Sydney grease advanced ½*d.*; medium and inferior sorts ½*d.* to 1*d.* lower.

*Third Series, June 9 to July 7.* — Prices opened with prices at from par to ½*d.* below April closing sales, and market maintained itself on this level, with tendency to improvement.

*Fourth Series, September 8 to October 7.* — All classes Australian wool showed average decline of ½*d.* to 1*d.*; New Zealand greasy suffered still more. Capes ruled from ½*d.* to 1½*d.* lower than at June Sales.

*Fifth Series, November 21 to December 15.* — A further decline of ½*d.* to 1*d.* for most Merino descriptions. Only best classes, suitable for American requirements, escaped decline. Scoured were a full 1*d.* lower, especially at close, when market was at its weakest.

### The Liverpool Sales.

*First Series, January 20-27.* — Bulk of wools sold at former prices, with white Candahar slightly weaker.

*Second Series, March 17-25.* — Absence of American buyers caused decline of ¼ to ½*d.* for better classes; lower sorts unchanged.

*Third Series, May 25. June 3.* — Prices declined ½*d.* in absence of American demand, and 5,000 bales withdrawn.

*Fourth Series, July 21-29.* — East India wools again declined ¼*d.* to ½*d.*

*Fifth Series, September 22-30.* — Prices for East India wools hardly changed; quotations for whites lowest on record.

*Sixth Series, November 24-30.* — Small quantities of East India brought forward, and prices on the whole maintained.

## No. 55.—Prices of Lincoln Wool, Half Hog, from 1812.

*Bradford Observer.*

| Year. | Price. | Year. | Price. |
|---|---|---|---|
| | *Pence* | | *Pence* |
| 1812 | 12½ | 1852 | 13⅝ |
| 1813 | 14 | 1853 | 16 |
| 1814 | 19 | 1854 | 15½ |
| 1815 | 22 | 1855 | 13 |
| 1816 | 16 | 1856 | 16 |
| 1817 | 15 | 1857 | 20⅓ |
| 1818 | 22 | 1858 | 15⅝ |
| 1819 | 16½ | 1859 | 18⅝ |
| 1820 | 16½ | 1860 | 20⅓ |
| 1821 | 14 | 1861 | 19½ |
| 1822 | 12 | 1862 | 20½ |
| 1823 | 11¼ | 1863 | 22⅝ |
| 1824 | 12 | 1864 | 27⅜ |
| 1825 | 17½ | 1865 | 25¼ |
| 1826 | 13 | 1866 | 23½ |
| 1827 | 11½ | 1867 | 18⅞ |
| 1828 | 11 | 1868 | 17½ |
| 1829 | 10 | 1869 | 18⅛ |
| 1830 | 9 | 1870 | 16¾ |
| 1831 | 12 | 1871 | 21⅜ |
| 1832 | 13 | 1872 | 25⅝ |
| 1833 | 14 | 1873 | 24½ |
| 1834 | 15½ | 1874 | 20¾ |
| 1835 | 15½ | 1875 | 19¾ |
| 1836 | 16 | 1876 | 17¼ |
| 1837 | 13½ | 1877 | 16¼ |
| 1838 | 14 | 1878 | 15 |
| 1839 | 17 | 1879 | 12½ |
| 1840 | 14 | 1880 | 15⅛ |
| 1841 | 12½ | 1881 | 12⅜ |
| 1842 | 11 | 1882 | 11¼ |
| 1843 | 10 | 1883 | 10 |
| 1844 | 11 | 1884 | 10 |
| 1845 | 13 | 1885 | 9⅞ |
| 1846 | 13 | 1886 | 10 |
| 1847 | 12 | 1887 | 10½ |
| 1848 | 11 | 1888 | 10⅜ |
| 1849 | 10 | 1889 | 11 |
| 1850 | 11 | 1890 | 11 |
| 1851 | 12½ | 1891 | 9¾ |

Average for eighty years 15½d. per lb.

## No. 56.—Prices of Alpaca and Mohair, from 1856.

*Bradford. Observer.*

| Date. | | Average Price of Alpaca (Arequipa). | Highest and Lowest Prices of Mohair. |
|---|---|---|---|
| | | *s — d* | *s — d* |
| 1856 | Nov. . . | 2/6 to 2/9 | 2/- to 2/2 |
| | Dec. . . | 2/9 " 2/10 | 2/2 " 2/4 |
| 1857 | Feb. . . | 2/9 " 2/10 | 2/4 " 2/6 |
| | June . . | 3/- " 3/3 | |
| | Dec. . | 3/- " 3/1½ | 2/7 " 2/9 |
| 1858 | . . . . . | 2/3 | 2/6 " 3/- |
| 1859 | . . . . . | 2/3 | 3/- |
| 1860 | . . . . . | 2/3 | 3/2 |
| 1861 | . . . . . | 2/3 | 3/2 |
| 1862 | Jan. . . | 2/6 | 3/3 |
| | July . . | 2/9½ | 3/- |
| 1863 | Jan. . . | 3/4 | 3/9 |
| | July . . | 2/6 | 3/4 |
| 1864 | . . . . . | 2/7 | 3/3 |
| 1865 | . . . . . | 2/10 | 2/11 |
| 1866 | Jan. . . | 3/4 | 3/8 |
| | July . . | 3/4 | 3/8 |
| 1867 | Jan. . . | 3/4½ | 3/9 |
| | Aug. . | 2/8 | 2/9 |
| | Sept. . | | |
| 1868 | Jan. . . | 2/4 | 2/5 |
| | July . . | 3/- | 3/2 |
| 1869 | Jan. . . | 2/5 to 2/7 | 3/7 |
| | July . . | 2/4 " 2/5 | 3/8 |
| 1870 | Jan. . . | 2/4 | 3/10 to 3/11 |
| | July . . | 2/8 | 4/1 |
| 1871 | Jan. . . | 2/8 | 3/3 |
| | June . . | 2/9½ to | 3/6 |
| 1872 | Jan. . . | 2/11 | 3/9 |
| | July . . | 2/6 | 3/5 |
| 1873 | Jan. . . | 2/7 | 3/4 |
| | July . . | 2/9 | 3/- |
| 1874 | Jan. . . | 2/9 | 2/11 |
| | July . . | 2/11 | 3/9 |
| 1875 | Jan. . . | 2/9 | 3/5 |
| | July . . | 2/8 | 3/10 |
| 1876 | Jan. . . | 2/6 | 3/7 |
| 1877 | . . . . . | 2/2½ to 2/4½ | 2/9 2/11 2/6 |
| 1878 | . . . . | 1/3½ " 1/4½ | 2/6 to 2/9 |
| 1879 | . . . . . | 1/4 " 1/7 | 20 " 21<br>18 " 2/3<br>2/3 " 2/11 |
| 1880 | . . . . . | 13 " 15½ | down to 1/9 |
| 1881 | . . . . . | 15 " 17 | 21 " 19 |
| 1882 | . . . . . | 13 " 15 | 19 " 22½ |
| 1883 | . . . . . | 15½ " 17 | 20 " 21½ |
| 1884 | . . . . . | 14 " 16½ | 18½ " 22¼ |
| 1885 | . . . . . | 12¾ " 14½ | 14 " 19 |
| 1886 | . . . . . | 11 " 14 | 11½ " 16 |
| 1887 | . . . . . | 11 " 13½ | 12½ " 14½ |
| 1888 | . . . . . | 10 " 11½ | 12 " 14 |
| 1889 | . . . . . | 10¾ " 24 | 12½ " 21 |
| 1890 | . . . . | 22 " 14½ | 18 " 13½ |
| 1891 | . . . . . | 14¾ " 12¼ | 14 " 12 |

**No. 57.—Prices per Pound in each Year of some Colonial and Foreign Wools.**

*Bradford Observer.*

| | *Port Philip Fleece, average. | *Port Philip Grease, good average. | *Adelaide Grease, average. | *Cape, Eastern, average fleece. | †Buenos Ayres, average grease. | †Donskoi average white carding. |
|---|---|---|---|---|---|---|
| | *d.* | *d.* | *d.* | *d.* | *d.* | *d.* |
| 1872 | 25¾ | 15½ | 12⅝ | 17⅜ | 7¾ | 13½ |
| 1873 | 25 | 15¼ | 11¾ | 15½ | 7 | 10 |
| 1874 | 23½ | 14⅝ | 11½ | 16⅛ | 7½ | 10½ |
| 1875 | 22 | 13½ | 10⅝ | 15⅛ | 7¼ | 11 |
| 1876 | 20¼ | 12⅛ | 9⅛ | 12⅞ | 7¼ | 10½ |
| 1877 | 20¼ | 12⅛ | 9⅛ | 12½ | 6¼ | 9¼ |
| 1878 | 20 | 12 | 9⅛ | 11⅝ | 5¾ | 7½ |
| 1879 | 18¾ | 11⅝ | 8½ | 11⅛ | 6⅜ | 9½ |
| 1880 | 21½ | 13½ | 10⅝ | 12⅝ | 7½ | 10½ |
| 1881 | 19½ | 12 | 9¼ | 11¼ | 7 | 9½ |
| 1882 | 19¾ | 12½ | 9 | 11⅝ | 6¾ | 8¾ |
| 1883 | 19 | 12⅛ | 8½ | 11¼ | 6½ | 8 |
| 1884 | 18¼ | 11½ | 8⅛ | 10⅜ | 6 | 7¼ |
| 1885 | 16½ | 10 | 6¾ | 9 | 4½ | 7¼ |
| 1886 | 15½ | 9¾ | 6¾ | 8¾ | 5¾ | 8½ |
| 1887 | 15¾ | 10⅛ | 7 | 9 | 5¼ | 7 |
| 1888 | 15¾ | 10¼ | 7 | 8⅝ | 6 | 7 |
| 1889 | 17¼ | 11½ | 8¼ | 10⅛ | 6¾ | 7½ |
| 1890 | 16 | 10¾ | 7½ | 9½ | 5¾ | 7¼ |
| 1891 | 14¾ | 10 | 6⅞ | 8¾ | 5 | 7 |

* Average prices. † Prices at end of year.

## No. 58.—Course of the Liverpool Wool Market.

J. L. Bowes and Bro.

| | Prices. | | | | |
|---|---|---|---|---|---|
| | Clothing Wool (Fine). | | | | |
| | Average for 10 years. | Jany. 1st, 1891. | Decr. 31st, 1891. | Change in 1891. | Change as compared with average for 10 years. |
| | *Pence.* | *Pence.* | *Pence.* | *Per cent.* | *Per cent.* |
| Port Philip, unwashed, good | 11.97 | 11½ | 10½ | 8.69 | 12.28 |
| New Zealand, unwashed, good | 10.62 | 10 | 9 | 10.00 | 15.25 |
| Buenos Ayres, unwashed, average | 6.57 | 6½ | 5¼ | 19.23 | 20.10 |
| Clothing Wool—Coarse. | | | | | |
| Peruvian, washed, average | 9.05 | 9 | 7¾ | 13.88 | 14.36 |
| Lima, unwashed, average | 7.22 | 7¼ | 6¼ | 13.79 | 13.43 |
| Abudia, unwashed, average | 6.30 | 6½ | 5¾ | 11.54 | 8.73 |
| Sheepskins. | | | | | |
| B. Ayres, full woolen matadero | 6.65 | 5¾ | 5¼ | 8.70 | 21.05 |
| Combing Wool. | | | | | |
| Lincoln, hog fleeces | 11.15 | 10½ | 9⅜ | 8.53 | 15.92 |
| Lincoln, wether fleeces | 10.40 | 9⅞ | 8⅜ | 4.06 | 14.66 |
| Kent, wether fleeces | 10.95 | 10½ | 9¾ | 7.14 | 10.96 |
| Sussex, Down fleeces, flocks | 13.52 | 12 | 12 | Same. | 11.25 |
| Alpaca, Islay fleece, average good | 14.92 | 15 | 12½ | 16.63 | 16.22 |
| Alpaca, Callao fleece, average | 10.47 | 10 | 9 | 10.00 | 14.04 |
| Mohair, Turkey fleece, average fair | 16.77 | 14 | 12¾ | 8.93 | 23.97 |
| Carpet and Blanket Wools. | | | | | |
| East India, 1st Joria, white | 11.37 | 10¾ | 10 | 6.98 | 12.05 |
| East India, 1st Candahar, white | 10.25 | 9¼ | 8 | 13.52 | 21.95 |
| East India, Pac Pathan, yellow | 8.20 | 8⅛ | 7⅛ | 12.12 | 11.58 |
| East India, ordinary, yellow | 7.30 | 7½ | 6½ | 10.34 | 10.96 |
| English Noils, medium | 10.15 | 9½ | 9¼ | Same. | 8.86 |
| Oporto, washed fleece | 9.87 | 9½ | 8¼ | 13.16 | 16.41 |
| Egyptian, washed, 1st white | 10.77 | 10 | 9 | 10.00 | 16.43 |
| Donskoi, washed, carding | 7.90 | 7¼ | 7 | 3.45 | 11.39 |
| Scotch, Highland, laid | 4.42 | 4⅛ | 4 | 5.88 | 9.50 |

## No. 59. — Quantities and Values of Manufactures of Wool Imported into Great Britain, 1861-1891.

| Years. | Woolen rags. | | Berlin wool and yarn used for fancy purposes. | | Yarns for weaving. | | All other manufactures of wool. | Total value. |
|---|---|---|---|---|---|---|---|---|
| | *Tons.* | £ | *Pounds.* | £ | *Pounds.* | £ | £ | £ |
| 1861 | 10,653 | 336,107 | 214,217 | 58,910 | 1,362,874 | 306,648 | 1,419,336 | 2,121,001 |
| 1865 | 14,585 | 565,861 | 211,244 | 58,092 | 4,180,846 | 940,692 | 1,891,104 | 3,455,749 |
| 1870 | 17,210 | 400,326 | 611,013 | 123,984 | 9,683,402 | 1,511,170 | 3,362,656 | 5,398,136 |
| 1871 | 24,219 | 498,754 | 464,058 | 81,883 | 11,665,465 | 1,097,289 | 4,637,625 | 6,315,551 |
| 1872 | 29,302 | 534,329 | 423,563 | 83,010 | 11,706,427 | 1,382,084 | 4,038,666 | 6,038,089 |
| 1873 | 24,827 | 468,556 | 325,259 | 59,194 | 13,169,662 | 1,496,463 | 3,846,662 | 5,870,875 |
| 1874 | 25,581 | 547,399 | 533,320 | 107,471 | 13,131,850 | 1,494,945 | 3,973,811 | 6,123,626 |
| 1875 | 25,415 | 599,402 | 727,214 | 145,049 | 11,700,928 | 1,327,887 | 4,308,357 | 6,380,695 |
| 1876 | 28,847 | 660,260 | 841,878 | 162,387 | 12,909,902 | 1,538,496 | 4,920,711 | 7,281,854 |
| 1877 | 33,408 | 760,256 | 976,044 | 190,369 | 12,948,662 | 1,540,239 | 5,235,948 | 7,726,812 |
| 1878 | 32,376 | 739,137 | 1,028,550 | 204,428 | 11,343,339 | 1,365,431 | 5,934,748 | 8,243,744 |
| 1879 | 33,309 | 660,046 | 887,233 | 167,719 | 10,022,139 | 1,233,402 | 5,637,675 | 7,698,842 |
| 1880 | 41,266 | 820,366 | 752,700 | 128,176 | 14,194,979 | 1,713,959 | 7,649,778 | 10,312,279 |
| 1881 | 35,265 | 761,591 | 663,922 | 117,080 | 10,068,329 | 1,236,737 | 5,985,863 | 8,101,271 |
| 1882 | 37,511 | 820,616 | 938,819 | 166,373 | 12,731,339 | 1,585,325 | 5,982,449 | 8,554,763 |
| 1883 | 35,767 | 757,277 | 951,221 | 170,593 | 14,558,567 | 1,831,010 | 6,251,281 | 9,010,161 |
| 1884 | 31,022 | 678,525 | 1,094,620 | 200,440 | 13,341,685 | 1,675,019 | 6,831,737 | 9,385,721 |
| 1885 | 32,642 | 681,995 | 1,255,425 | 221,412 | 14,632,653 | 1,774,399 | 7,374,808 | 10,052,614 |
| 1886 | 30,526 | 638,274 | 1,420,393 | 263,820 | 18,620,957 | 2,228,715 | 8,067,776 | 11,198,585 |
| 1887 | 31,670 | 664,122 | 1,188,556 | 213,842 | 16,088,197 | 1,905,566 | 7,711,227 | 10,494,757 |
| 1888 | 31,643 | 658,229 | 1,176,067 | 206,313 | 16,517,044 | 1,866,534 | 8,803,348 | 11,534,424 |
| 1889 | 31,335 | 669,438 | 1,244,985 | 219,287 | 19,051,354 | 2,204,156 | 9,784,068 | 12,876,949 |
| 1890 | 34,659 | 716,379 | 1,235,931 | 219,567 | 15,144 054 | 1,715,494 | 9,321,930 | 11,973,370 |
| 1891 | 36,915 | . . . . . | . . . . . | . . . . . | 15,336,000 | 1,739,000 | . . . . . | [1]12,520,000 |

[1] Estimated.

## No. 60. — Quantities and Values of British Manufactures of Wool Exported, 1861-1891.

[.000 omitted. One pound sterling equals $4.8665.]

| Years. | Alpaca, Mohair, etc. | | Yarns, Woolen, Worsted. | | Cloths, Coatings, etc., unmixed and mixed. | | Flannels, Blankets, Carpeting, and Baizes. | | Stuffs, unmixed and mixed. | | Carpets and Druggets. | | All other. | Total value. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | *Pounds.* | £ | *Pounds.* | £ | *Yards.* | £ | *Yards.* | £ | *Yards.* | £ | *Yards.* | £ | £ | £ |
| 1861 | . . . . | . . . . | 26,492 | 3,325 | 24,371 | 2,998 | 13,403 | 1,031 | 122,555 | 6,121 | 4,067 | 508 | 458 | 14,444 |
| 1865 | . . . . | . . . . | 30,425 | 5,110 | 25,615 | 4,023 | 14,769 | 1,203 | 233,078 | 13,360 | 5,743 | 861 | 692 | 25,251 |
| 1870 | . . . . | . . . . | 35,536 | 4,994 | 32,404 | 4,749 | 14,985 | 1,078 | 235,936 | 13,788 | 9,374 | 1,393 | 654 | 26,659 |
| 1871 | . . . . | . . . . | 43,725 | 6,100 | 35,583 | 5,563 | 14,091 | 1,030 | 307,235 | 17,953 | 10,957 | 1,648 | 987 | 33,283 |
| 1872 | . . . . | . . . . | 39,734 | 6,110 | 40,734 | 6,991 | 15,022 | 1,104 | 344,968 | 20,905 | 11,815 | 1,916 | 1,464 | 38,493 |
| 1873 | . . . . | . . . . | 34,744 | 5,393 | 38,633 | 6,599 | 14,447 | 1,089 | 282,884 | 14,277 | 9,921 | 1,597 | 1,785 | 30,743 |
| 1874 | . . . . | . . . . | 34,981 | 5,558 | 40,321 | 6,642 | 16,004 | 1,318 | 261,135 | 11,888 | 9,208 | 1,480 | 1,471 | 28,359 |
| 1875 | . . . . | . . . . | 31,723 | 5,099 | 42,058 | 6,850 | 16,109 | 1,239 | 251,845 | 11,159 | 7,522 | 1,159 | 1,249 | 26,758 |
| 1876 | . . . . | . . . . | 30,854 | 4,417 | 40,479 | 6,451 | 13,902 | 1,014 | 221,561 | 9,141 | 6,298 | 911 | 1,083 | 23,020 |
| 1877 | . . . . | . . . . | 26,972 | 3,609 | 44,125 | 6,567 | 16,058 | 1,176 | 194,777 | 7,725 | 6,454 | 847 | 1,025 | 20,952 |
| 1878 | . . . . | . . . . | 31,189 | 3,908 | 43,529 | 6,263 | 15,237 | 1,070 | 192,482 | 7,443 | 6,626 | 840 | 1,110 | 20,635 |
| 1879 | . . . . | . . . . | 33,378 | 3,714 | 46,258 | 6,145 | 11,663 | 806 | 186,646 | 6,921 | 6,606 | 803 | 1,184 | 19,575 |
| 1880 | . . . . | . . . . | 26,464 | 3,344 | 50,000 | 6,736 | 13,086 | 897 | 189,940 | 7,241 | 9,328 | 1,133 | 1,256 | 20,609 |
| 1881 | . . . . | no ret'rn | 29,731 | 3,225 | 55,679 | 7,552 | 15,378 | 972 | 192,106 | 7,237 | 9,711 | 1,164 | 1,201 | 22,033 |
| 1882 | . . . . | 8,752 | 31,832 | 3,398 | 54,129 | 7,708 | 17,317 | 1,091 | 182,444 | 7,332 | 11,318 | 1,326 | 1,309 | 23,096 |
| 1883 | . . . . | 8,056 | 33,488 | 3,266 | 46,068 | 7,351 | 13,572 | 837 | 185,565 | 7,687 | 10,699 | 1,258 | 1,179 | 22,536 |
| 1884 | . . . . | 11,503 | 39,272 | 3,890 | 45,959 | 7,931 | 15,653 | 911 | 217,121 | 8,718 | 11,540 | 1,258 | 1,316 | 25,217 |
| 1885 | . . . . | 12,193 | 43,491 | 4,382 | 45,954 | 7,702 | 17,182 | 936 | 198,764 | 7,741 | 11,082 | 1,188 | 1,278 | 24,428 |
| 1886 | . . . . | 14,432 | 45,650 | 4,411 | 51,241 | 8,446 | 18,112 | 942 | 198,602 | 7,652 | 11,647 | 1,233 | 1,465 | 25,534 |
| 1887 | . . . . | 12,196 | 40,153 | 3,970 | 56,158 | 9,370 | 18,857 | 964 | 200,984 | 7,424 | 12,947 | 1,309 | 1,528 | 25,646 |
| 1888 | . . . . | 11,320 | 963 | 42,630 | 4,052 | 58,568 | 9,653 | 24,210 | 1,094 | 176,880 | 6,359 | 11,901 | 1,228 | 1,659 | 25,007 |
| 1889 | . . . . | 13,343 | 1,179 | 45,360 | 4,342 | 62,767 | 10,604 | 23,379 | 1,135 | 178,042 | 6,547 | 12,090 | 1,271 | 1,768 | 26,846 |
| 1890 | . . . . | 12,960 | 1,175 | 41,082 | 4,086 | 84,042 | 11,126 | 21,333 | 1,097 | 145,079 | 5,251 | 10,737 | 1,115 | 1,830 | 25,680 |
| 1891 | . . . . | 13,582 | 1,132 | 41,432 | 3,910 | 80,789 | 10,423 | [1] 11,688 | [2] 966 | 119,978 | 4,358 | 10,514 | 1,092 | 1,613 | 23,494 |

Classification of cloths, coatings, and stuffs changed in 1890.

[1] Blankets not included.

[2] Includes value of blankets.

## No. 61.— Woolen and Worsted Mills in Great Britain.

OFFICIAL RETURNS UNDER FACTORIES AND WORKSHOPS ACT.

| NUMBER OF | 1870. | | 1874. | | 1878. | | 1885. | | 1889. | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Woolen. | Worsted. | Woolen. | Worsted. | Woolen. | Worsted. | Woolen. | Worsted. | Woolen. | Worsted. |
| Factories | 1,829 | 630 | 1,800 | 692 | 1,732 | 693 | 1,918 | 725 | 1,793 | 753 |
| Spinning spindles | 2,531,768 | 1,821,144 | 3,165,569 | 2,182,792 | 3,337,607 | 2,096,820 | 3,054,144 | 2,227,192 | 3,107,209 | 2,402,922 |
| Doubling spindles | 160,993 | 310,308 | 158,312 | 399,658 | 318,154 | 456,114 | 230,941 | 536,329 | 299,793 | 669,328 |
| Power looms | 48,140 | 64,654 | 57,090 | 81,747 | 56,944 | 87,393 | 57,990 | 79,931 | 61,831 | 67,391 |
| Total males employed | 59,818 | 34,431 | 61,740 | 42,881 | 59,086 | 39,601 | 64,462 | 46,641 | 67,303 | 51,000 |
| Total females employed | 59,677 | 56,820 | 64,599 | 69,388 | 65,848 | 69,784 | 69,622 | 73,277 | 76,492 | 79,452 |
| Total children employed | 5,635 | 18,306 | 8,266 | 29,828 | 9,410 | 21,540 | 5,232 | 18,312 | 4,934 | 17,872 |
| Total employees | 125,130 | 109,557 | 134,605 | 142,097 | 134,344 | 130,925 | 139,316 | 138,230 | 148,729 | 148,324 |

# FRANCE.

## No. 62.—Quantities and Values of Wool and Manufactures of Wool Imported into and Exported from France, 1861-1889.

[One kilogram equals 2.20462 pounds. One franc equals 19.3 cents. .000 omitted.]

| Years. | Imports. | | | Exports. | | | |
|---|---|---|---|---|---|---|---|
| | Wool, raw. | | Value of Wool manufactures. | Wool, raw. | | Value of Wool manufactures. | |
| | Quantity. | Value. | | Quantity. | Value. | Yarn. | Other manufactures. |
| | *Kilogr.* | *Francs.* | *Francs.* | *Kilogr.* | *Francs.* | *Francs.* | *Francs.* |
| 1861 | 55,359 | 166,100 | 20,600 | 6,448 | 21,000 | . . . . | 188,000 |
| 1862 | 48,826 | 180,700 | 41,000 | 12,177 | 45,100 | 12,500 | 221,700 |
| 1863 | 63,792 | 218,800 | 33,400 | 11,006 | 48,200 | 15,200 | 293,600 |
| 1864 | 63,028 | 214,300 | 32,000 | 12,141 | 51,100 | 19,100 | 355,900 |
| 1865 | 72,663 | 236,200 | 38,100 | 7,913 | 33,000 | 21,200 | 302,800 |
| 1866 | 86,261 | 245,800 | 42,800 | 10,089 | 33,500 | 23,600 | 301,700 |
| 1867 | 93,205 | 223,700 | 42,100 | 13,611 | 43,200 | 30,800 | 236,800 |
| 1868 | 110,700 | 237,900 | 54,500 | 12,067 | 36,500 | 25,000 | 224,900 |
| 1869 | 108,600 | 206,300 | 64,300 | 17,147 | 44,700 | 27,800 | 268,300 |
| 1870 | 88,147 | 189,500 | 57,900 | 21,300 | 59,100 | 24,700 | 231,600 |
| 1871 | 101,958 | 193,700 | 76,500 | 29,881 | 75,300 | 40,600 | 254,400 |
| 1872 | 107,862 | 324,900 | 99,900 | 22,504 | 102,200 | 31,100 | 314,500 |
| 1873 | 120,545 | 325,600 | 59,700 | 19,445 | 86,600 | 31,300 | 325,900 |
| 1874 | 117,353 | 310,987 | 66,600 | 24,413 | 104,200 | 36,900 | 328,000 |
| 1875 | 128,010 | 326,522 | 78,100 | 21,617 | 84,100 | 39,720 | 346,400 |
| 1876 | 123,178 | 277,200 | 79,000 | 21,077 | 74,800 | 28,600 | 316,500 |
| 1877 | 134,235 | 315,500 | 68,600 | 21,443 | 77,100 | 26,800 | 325,100 |
| 1878 | 144,100 | 334,617 | 68,700 | 27,072 | 89,725 | 37,200 | 312,800 |
| 1879 | 134,214 | 288,728 | 68,176 | 34,996 | 117,222 | 43,692 | 309,297 |
| 1880 | 151,067 | 370,224 | 79,100 | 35,062 | 132,456 | 49,300 | 370,200 |
| 1881 | 138,332 | 304,333 | 76,991 | 29,479 | 105,618 | 38,147 | 360,717 |
| 1882 | 140,983 | 303,126 | 84,290 | 29,555 | 95,360 | 39,849 | 401,900 |
| 1883 | 157,112 | 330,087 | 91,858 | 31,448 | 95,139 | 34,602 | 370,106 |
| 1884 | 165,956 | 332,105 | 88,799 | 32,917 | 95,999 | 32,337 | 334,294 |
| 1885 | 167,356 | 276,442 | 75,523 | 36,981 | 90,833 | 35,605 | 330,094 |
| 1886 | 193,274 | 386,851 | 70,821 | 48,825 | 132,018 | 43,896 | 375,583 |
| 1887 | 177,464 | 336,056 | 63,872 | 44,429 | 120,011 | 39,622 | 350,447 |
| 1888 | 175,519 | 341,252 | 65,176 | 47,079 | 131,284 | 37,160 | 323,376 |
| 1889 | 194,260 | 389,347 | 67,823 | 57,885 | 168,840 | 55,537 | 364,416 |

## No. 63.—Sheep Census of France.

De Foville's "La France Economique," 1889.

| | | | |
|---|---|---|---|
| 1786 | 20,000,000 | 1862 | 29,500,000 |
| 1812 | 27,000,000 | 1866 | 30,400,000 |
| 1829 | 29,000,000 | 1872 | 24,600,000 |
| 1840 | 32,000,000 | 1882 | 23,800,000 |
| 1852 | 33,000,000 | 1887 | 22,900,000 |

The average value per head of sheep was placed in 1882 at 27 francs.

## No. 64.—The Wool Clip of France.

The French clip was estimated by Chaptel in 1812 at 380,000 quintals [220½ pounds], and valued at 80,000,000 francs. In 1860 the official estimate was 600,000 quintals, valued at 200,000,000 francs. The official statistics of the wool productions are as follows for later years:—

| | | |
|---|---|---|
| 1883 . . . . . | 355,000 quintals. | 78,277,000 pounds. |
| 1885 . . . . . | 475,000 " | 104,737,000 " |
| 1886 . . . . . | 530,000 " | 116,837,000 " |
| 1887 . . . . . | 566,000 " | 124,803,000 " |

## No. 65.—Progress of the Wool Industry of France.

[From the "Annuaire de Statistique de la France," 1872-1888.]

| Years. | Factories. | Persons employed. | Spindles. | Looms. | | Wool imported for home consumption. |
|---|---|---|---|---|---|---|
| | | | | Machine. | Hand. | |
| | | | | | | *Pounds.* |
| 1872 . . . . . | . . . . | . . . . | 2,899,894 | . . . . | . . . . | 237,727,848 |
| 1773 . . . . . | . . . | . . . . | 2,898,929 | 23,725 | . . . . | 265,681,180 |
| 1874 . . . . . | . . . . | . . . . | 2,955,139 | 27,557 | . . . . | 258,646,012 |
| 1875 . . . . . | 2,270 | 95,779 | 2,969,522 | 30,114 | 56,895 | 282,134,040 |
| 1876 . . . . . | 2,099 | 110,954 | 2,946,632 | 38,267 | 62,230 | 271,484,312 |
| 1877 . . . . . | 2,198 | 108,049 | 3,007,351 | 28,188 | 54,434 | 295,853,940 |
| 1878 . . . . . | 2,306 | 105,839 | 2,995,406 | 30,139 | 41,603 | 317,596,400 |
| 1879 . . . . . | 2,200 | 108,086 | 3,022,777 | 35,274 | 42,934 | 295,807,656 |
| 1880 . . . . . | 1,926 | 110,904 | 3,037,837 | 41,044 | 37,632 | 332,951,668 |
| 1881 . . . . . | 1,915 | 111,523 | 3,067,459 | 41,466 | 37,140 | 304,883,728 |
| 1882 . . . . . | 1,915 | 113,220 | 3,063,961 | 44,516 | 37,127 | 310,726,532 |
| 1883 . . . . . | 2,020 | 112,782 | 3,097,363 | 45,682 | 37,620 | 346,369,115 |
| 1884 . . . . . | 1,969 | 110,578 | 3,062,068 | 44,699 | 32,430 | 365,866,597 |
| 1885 . . . . . | 1,882 | 112,447 | 3,266,107 | 46,319 | 30,101 | 368,953,037 |
| 1686 . . . . . | 1,926 | 115,024 | 3,283,589 | 45,951 | 28,446 | 426,091,860 |
| 1887 . . . . . | 1,987 | 109,372 | 3,151,871 | 44,682 | 25,399 | 391,237,134 |
| 1888 . . . . . | . . . . | . . . . | 3,329,138 | . . . . | . . . . | 386,949,187 |

## No. 66.—Quantities and Values of Wool and Manufactures of Wool Imported into Germany, 1875–1889.

[One kilogram equals 2.20462 pounds. One mark equals 23.8 cents.

| Year. | Wool, raw. | | Manufactures of Wool. | | | |
|---|---|---|---|---|---|---|
| | | | Woollen yarn. | | Cloth. | |
| | Quantities. | Values. | Quantities. | Values. | Quantities. | Values. |
| | 100 *kilogs.* | *Marks.* | 100 *kilogs.* | *Marks.* | 100 *kilogs.* | *Marks.* |
| 1875 | 565,000 | 203,000,000 | 163,000 | 103,000,000 | 70,338 | 80,350,000 |
| 1876 | 650,000 | 208,000,000 | 152,000 | 89,200,000 | 67,299 | 74,430,000 |
| 1877 | 685,000 | 212,000,000 | 136,000 | 74,900,000 | 57,237 | 60,352,000 |
| 1878 | 680,000 | 211,000,000 | 152,000 | 79,800,000 | 50,000 | 49,000,000 |
| 1879 | 925,000 | 268,000,000 | 187,000 | 94,300,000 | 69,750 | 66,206,000 |
| 1880 | 677,500 | 206,267,000 | 149,000 | 93,110,000 | 23,350 | 21,339,000 |
| 1881 | 773,700 | 193,430,000 | 157,000 | 84,988,000 | 21,300 | 19,972,000 |
| 1882 | 885,000 | 203,555,000 | 161,000 | 83,584,000 | 14,800 | 14,342,000 |
| 1883 | 909,693 | 200,133,000 | 167,000 | 80,479,000 | 12,918 | 12,439,000 |
| 1884 | 1,056,662 | 221,899,000 | 190,000 | 93,396,000 | 12,722 | 11,882,000 |
| 1885 | 987,901 | 167,943,000 | 193,178 | 95,806,000 | 13,610 | 11,674,000 |
| 1886 | 1,086,854 | 217,371,000 | 202,578 | 110,471,000 | 13,548 | 11,535,000 |
| 1887 | 1,108,466 | 216,151,000 | 181,880 | 94,374,000 | 12,639 | 10,778,000 |
| 1888 | 1,315,356 | 247,287,000 | 189,813 | 92,833,000 | 12,038 | 10,221,000 |
| 1889 | 1,398,722 | 279,744,000 | 215,972 | 112,629,000 | 14,292 | 12,496,000 |

## No. 67.—Quantities and Values of Wool and Manufactures of Wool Exported from Germany, 1875-1889.

[One kilogram equals 2.30462 pounds. One mark equals 23.8 cents.]

| Year. | Wool, raw. | | Manufactures of Wool. | | | | Total Value Manufactures. |
|---|---|---|---|---|---|---|---|
| | | | Woollen Yarn. | | Other Manufactures. | | |
| | Quantities. | Values. | Quantities. | Values. | Quantities. | Values. | |
| | 100 *kilogs.* | *Marks.* | 100 *kilogs.* | *Marks.* | 100 *kilogs.* | *Marks.* | *Marks.* |
| 1875 | 199,500 | (*a*) | 38,700 | 29,400,000 | 129,000 | (*a*) | (*a*) |
| 1876 | 199,000 | (*a*) | 33,700 | 23,600,000 | 117,150 | (*a*) | (*a*) |
| 1877 | 222,500 | (*a*) | 41,400 | 27,300,000 | 169,300 | (*a*) | (*a*) |
| 1878 | 213,000 | (*a*) | 50,500 | 30,300,000 | 124,800 | (*a*) | (*a*) |
| 1879 | 225,000 | (*a*) | 42,000 | 24,400,000 | 123,300 | (*a*) | (*a*) |
| 1880 | 143,250 | 50,139,000 | 50,000 | 32,648,000 | 167,150 | 171,161,000 | 203,809,000 |
| 1881 | 120,850 | 48,340,000 | 45,000 | 29,599,000 | 184,200 | 187,086,000 | 216,685,000 |
| 1882 | 134,500 | 49,698,000 | 50,000 | 34,027,000 | 192,500 | 177,579,000 | 211,606,000 |
| 1883 | 127,216 | 45,798,000 | 48,000 | 30,693,000 | 198,622 | 180,146,000 | 210,839,000 |
| 1884 | 119,140 | 39,316,000 | 52,000 | 32,130,000 | 214,100 | 185,102,000 | 217,232,000 |
| 1885 | 100,952 | 27,257,000 | 56,794 | 36,238,000 | 206,805 | 158,363,000 | 194,601,000 |
| 1886 | 130,325 | 40,401,000 | 64,070 | 44,789,000 | 223,893 | 172,339,000 | 217,128,000 |
| 1887 | 99,651 | 30,394,000 | 60,392 | 39,990,000 | 235,670 | 180,027,000 | 220,017,000 |
| 1888 | 128,383 | 37,873,000 | 68,813 | 42,847,000 | 233,064 | 189,748,000 | 232,595,000 |
| 1889 | 109,178 | 33,299,000 | 65,578 | 43,221,000 | 205,897 | 172,622,000 | 215,843,000 |

*a* No data.

## BELGIUM.

**No. 68.—Quantities and Values of Wool and Manufactures of Wool Imported into and Exported from Belgium, 1874-1889.**

[One kilogram equals 2.20462 pounds; one franc equals 19.3 cents. .000 omitted.]

| Years. | Imports. | | | Exports. | | | |
|---|---|---|---|---|---|---|---|
| | | | | Manufactures of Wool. | | | |
| | Wool, raw. | | Manufactures of Wool. | Yarn. | | Other Manufactures. | |
| | Quantity. | Value. | Value. | Quantity. | Value. | Quantity. | Value. |
| | *Kilogr.* | *Francs.* | *Francs.* | *Kilogr.* | *Francs.* | *Kilogr.* | *Francs.* |
| 1874 . . . | 51,054 | 114,871 | 26,318 | 4,949 | 49,369 | 2,792 | 43,390 |
| 1875 . . . | 45,825 | 114 562 | 26,765 | 4,571 | 47,854 | 2,608 | 41,628 |
| 1876 . . . | 51,905 | 155,714 | 25,710 | 3,689 | 39,527 | 2,318 | 38,953 |
| 1877 . . . | 48,954 | 159,099 | 22,981 | 4,880 | 48,890 | 2,256 | 34,195 |
| 1878 . . . | 46,541 | 146,604 | 21,946 | 6,392 | 67,511 | 2,723 | 38,960 |
| 1879 . . . | 43,287 | 140,683 | 19,266 | 6,541 | 63,551 | 1,938 | 25,754 |
| 1880 . . . | 49,265 | 184,743 | 23,494 | 7,699 | 78,516 | 1,948 | 27,903 |
| 1881 . . . | 45,509 | 177,485 | 22,746 | 7,790 | 73,987 | 2,180 | 31,365 |
| 1882 . . . | 57,005 | 114,010 | 22,210 | 6,864 | 41,961 | 2,356 | 30,380 |
| 1883 . . . | 48,358 | 96,716 | 20,817 | 8,966 | 55,240 | 1,982 | 25,168 |
| 1884 . . . | 36,417 | 72,835 | 21,025 | 8,911 | 53,227 | 2,219 | 26,469 |
| 1885 . . . | 43,802 | 76,654 | 21,948 | 9,379 | 46,768 | 2,550 | 28,535 |
| 1886 . . . | 39,199 | 68,597 | 20,137 | 11,225 | 56,041 | 2,091 | 22,537 |
| 1887 . . . | 44,377 | 77,660 | 20,301 | 11,581 | 54,606 | 2,162 | 23,450 |
| 1888 . . . | 38,084 | 66,646 | 19,820 | 11,994 | 55,677 | 2,331 | 25,346 |
| 1889 . . . | 44,164 | 88,328 | 19,586 | 12,658 | 62,663 | 2,448 | 26,557 |

## No. 69.—Quantities and Values of Wool and Manufactures of Wool Imported into and Exported from Austria-Hungary, 1875–1889.

[One metric centner equals 220.4621 pounds. One gulden equals 48.5 cents.]

| Years. | Imports. | | | | | | Exports. | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | Wool, raw. | | Woollen Yarn. | | Other Manufactures. | | Wool, raw. | | Manufactures of Wool.[1] | |
| | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. | Quantity. | Value. |
| | *Met. ctr.* | *Gulden.* | *Met. ctr.* | *Gulden.* | *Met. ctr.* | *Gulden.* | *Met. ctr.* | *Gulden.* | *Met. ctr.* | *Gulden.* |
| 1875 | (*a*) | (*a*) | 34,062 | 14,090,000 | 41,557 | 26,696,000 | (*a*) | (*a*) | 37,921 | 20,718,000 |
| 1876 | (*a*) | (*a*) | 27,642 | 9,898,000 | 35,212 | 21,963,000 | (*a*) | (*a*) | 37,675 | 21,314,000 |
| 1877 | (*a*) | (*a*) | 34,249 | 11,769,000 | 26,412 | 15,844,000 | (*a*) | (*a*) | 38,643 | 20,883,000 |
| 1878 | (*a*) | (*a*) | 35,646 | 11,225,000 | 37,358 | 20,131,000 | (*a*) | (*a*) | 43,587 | 25,114,000 |
| 1879 | 192,959 | 34,482,000 | 38,497 | 13,623,000 | 31,811 | 19,579,000 | 76,251 | 15,009,000 | 49,338 | 27,616,000 |
| 1880 | 189,478 | 35,934,000 | 36,764 | 13,692,000 | 33,103 | 21,043,000 | 120,469 | 26,267,000 | 43,676 | 24,401,000 |
| 1881 | 210,902 | 40,181,000 | 38,763 | 14,161,000 | 34,052 | 21,411,000 | 94,631 | 19,768,000 | 53,637 | 30,335,000 |
| 1882 | 238,585 | 38,863,000 | 42,924 | 14,943,000 | 34,726 | 22,350,000 | 96,997 | 20,379,000 | 52,840 | 30,025,000 |
| 1883 | 244,856 | 37,075,000 | 42,343 | 13,029,000 | 30,352 | 19,263,000 | 122,901 | 24,605,000 | 46,680 | 26,235,000 |
| 1884 | 255,856 | 38,420,000 | 49,548 | 14,708,000 | 28,100 | 18,017,000 | 113,748 | 21,923,000 | 50,822 | 26,615,000 |
| 1885 | 219,701 | 26,648,000 | 47,493 | 12,278,000 | 22,256 | 13,801,000 | 91,989 | 13,919,000 | 46,761 | 21,846,000 |
| 1886 | 207,500 | 31,498,000 | 48,417 | 13,596,000 | 20,623 | 13,348,000 | 128,817 | 24,365,000 | 53,393 | 27,357,000 |
| 1887 | 241,581 | 41,208,000 | 52,131 | 16,417,000 | 18,802 | 12,034,000 | 65,751 | 14,916,000 | 47,940 | 25,126,000 |
| 1888 | 226,194 | 36,653,000 | 56,153 | 16,534,000 | 17,320 | 9,858,000 | 89,883 | 18,740,000 | 47,752 | 24,910,000 |
| 1889 | 287,180 | 49,915,000 | 60,191 | 19,791,000 | 18,133 | 10,129,000 | 127,543 | 29,488,000 | 52,808 | 25,315,000 |

[1] Yarn not included.

*a* Not stated.

## No. 70.—Quantities of Wool and Manufactures of Wool Imported into and of Wool Exported from Denmark, 1874-1888.

[One pound equals 1.1025 pounds.

| Years. | Imports. | | Exports. |
|---|---|---|---|
| | Wool, raw. | Manufactures of wool. | Wool, raw. |
| | *Pund.* | *Pund.* | *Pund.* |
| 1874 | 1,392,091 | 4,106,930 | 3,967,986 |
| 1875 | 1,376,399 | 4,449,805 | 3,582,662 |
| 1876 | 1,292,834 | 4,118,877 | 3,869,789 |
| 1877 | 1,638,146 | 3,573,974 | 4,231,661 |
| 1878 | 1,939,641 | 3,580,007 | 3,417,483 |
| 1879 | 1,572,275 | 4,145,125 | 4,004,440 |
| 1880 | 1,669,408 | 4,775,051 | 4,372,171 |
| 1881 | 1,961,046 | 4,960,478 | 4,513,293 |
| 1882 | 2,867,862 | 5,227,868 | 4,103,886 |
| 1883 | 2,233,953 | 5,524,364 | 4,625,936 |
| 1884 | 2,348,541 | 5,699,830 | 3,333,405 |
| 1885 | 2,233,790 | 5,445,118 | 3,431,238 |
| 1886 | 2,208,831 | 4,847,662 | 3,821,279 |
| 1887 | 2,674,420 | 6,043,865 | 3,167,164 |
| 1888 | 2,794,647 | 6,141,384 | 2,775,325 |
| 1889 | 3,187,916 | 5,967,312 | 2,264,488 |

## AUSTRALASIA.

### No. 71. Sheep Census.

| | 1871. | 1881. | 1889. | 1891. |
|---|---|---|---|---|
| | *Number.* | *Number.* | *Number.* | *Number.* |
| New South Wales . . . | 16,278,697 | 36,591,946 | 46,503,469 | 55,986,431 |
| Victoria . . . . . | 10,002,381 | 10,267,265 | 10,818,575 | 12,736,143 |
| Queensland . . . . . | 7,403,334 | 8,292,883 | 13,444,005 | 18,007,234 |
| South Australia . . . . | 4,412,055 | 6,810,856 | 7,150,000 | 7,004,642 |
| Western Australia . . . | 670,999 | 1,267,912 | 2,112,393 | 2,524,903 |
| Tasmania . . . . . | 1,305,489 | 1,847,479 | 1,430,065 | 1,619,256 |
| New Zealand . . . . . | 9,700,629 | 12,985,085 | 16,677,445 | 16,749,692 |
| Total . . . . . | 49,773,584 | 78,063,426 | 98,135,952 | 114,628,301 |

New South Wales averages 2.46 acres, and Victoria 1.61 acres per sheep. Their limit for sheep production is already reached. Western Australia has one sheep per 158.56 acres, South Australia one to 46.33 acres, Australasia has 30.5 sheep to each inhabitant.

#### Average Weight of Australasian Fleece.

1860, 2.94 lb. per sheep of greasy, 1.70 lb. of washed wool; 1870, 3.52 greasy, 2.29 washed; 1880, 4.29 greasy, 2.36 washed; 1890, 5.75 greasy, 3 lb. 2 oz. washed.

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### No. 72. Exports from Australasia to United States, direct. 1871-1891.

*U.S. Consul, G. W. Griffin.*

| | Bales. | | Bales. |
|---|---|---|---|
| 1871-72 . . . . . | 18,659 | 1882-83 . . . . . | 5,794 |
| 1872-73 . . . . . | 11,851 | 1883-84 . . . . . | 14,863 |
| 1873-74 . . . . . | 9,745 | 1884-85 . . . . . | 6,221 |
| 1874-75 . . . . . | 19,042 | 1885-86 . . . . . | 20,161 |
| 1875-76 . . . . . | 5,032 | 1886-87 . . . . . | 15,360 |
| 1876-77 . . . . . | 7,567 | 1887-88 . . . . . | 22,379 |
| 1877-78 . . . . . | 5,071 | 1888-89 . . . . . | 37,175 |
| 1879-80 . . . . . | 17,551 | 1889-90 . . . . . | 12,340 |
| 1880-81 . . . . . | 3,372 | 1890-91 . . . . . | 31,900 |
| 1881-82 . . . . . | 11,070 | | |

## No. 73. — Australasian Wool Exports from 1881-82 to 1890-91.

*Dalgety & Co.*

| Colony. | 1881–82. | 1882–83. | 1883–84. | 1884–85. | 1885–86. | 1886–87. | 1887–88. | 1888–89. | 1889–90. | 1890–91. |
|---|---|---|---|---|---|---|---|---|---|---|
| | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* | *Bales.* |
| Victoria | 338,861 | 313,318 | 331,552 | 329,911 | 315,650 | 331,998 | 347,869 | 352,982 | 418,918 | 408,193 |
| New South Wales | 239,773 | 264,721 | 317,804 | 293,296 | 346,145 | 332,961 | 397,271 | 453,601 | 461,208 | 546,912 |
| Queensland | 53,128 | 53,637 | 74,849 | 73,092 | 72,717 | 65,305 | 88,808 | 106,222 | 93,381 | 112,801 |
| South Australia | 149,485 | 150,118 | 120,870 | 152,387 | 130,924 | 148,120 | 150,027 | 133,139 | 147,614 | 153,552 |
| West Australia | 10,921 | 10,978 | 12,634 | 14,548 | 14,343 | 16,373 | 16,438 | 21,881 | 23,999 | 29,460 |
| Tasmania | 20,477 | 20,718 | 18,899 | 17,268 | 16,435 | 17,621 | 16,657 | 19,536 | 19,251 | 20,155 |
| New Zealand | 194,056 | 215,472 | 226,984 | 232,100 | 244,617 | 271,895 | 256,419 | 267,289 | 264,161 | 293,556 |
| Total | 1,006,701 | 1,028,962 | 1,103,592 | 1,112,602 | 1,140,831 | 1,184,273 | 1,273,489 | 1,354,650 | 1,428,532 | 1,564,629 |
| Increase over previous year | | 22,261 | 74,630 | 9,010 | 28,229 | 43,442 | 89,216 | 81,161 | 73,882 | 136,097 |

## No. 74. — Sales of Wool in Australasian Markets, Bales.

| Season. | Sydney. | Melbourne and Geelong. | Adelaide. | Tasmania. | New Zealand. | Total. | As compared with London sales of Australasian Wool. |
|---|---|---|---|---|---|---|---|
| 1884–5 | 109,000 | 192,000 | 32,000 | | | 333,000 | |
| 1885–6 | 106,000 | 176,000 | 32,000 | | | 314,000 | |
| 1886–7 | 120,000 | 180,000 | 38,000 | | | 338,000 | |
| 1887–8 | 145,000 | 190,000 | 35,000 | | | 370,000 | 1888 — 1,159,556 |
| 1888–9 | 200,000 | 225,000 | 43,000 | | | 468,000 | 1889 — 1,111,347 |
| 1889–90 | 235,000 | 286,000 | 48,000 | 3,500 | 67,000 | 639,500 | 1890 — 1,082,584 |
| 1890–1 | 250,000 | [1]250,000 | 45,000 | 3,500 | 59,000 | 607,500 | |

[1] Number of bales sold in Geelong, 48,000.

## No. 74A.—A Summary of Wool Sales in Sydney, March 1, 1891, to February 4, 1892.

*Goldsbrough, Mort, & Co., Limited, February 8, 1892.*

| | No. of Sales. | Bales Offered. | Bales Sold. |
|---|---|---|---|
| Goldsbrough, Mort, & Co., Limited | 35 | 87,169 | 61,447 |
| Harrison, Jones, & Devlin, Limited | 30 | 56,437 | 43,012 |
| J. Bridge & Co. | 28 | 40,853 | 32,911 |
| Winchcombe, Carson, & Co. | 30 | 31,042 | 25,293 |
| Hill, Clark, & Co. | 21 | 27,786 | 23,261 |
| New Zealand Loan Agency Co. | 21 | 30,578 | 22,987 |
| (Pastoralists' Association Limited) | 21 | 23,965 | 20,885 |
| Dalgety & Co., Limited | 20 | 23,733 | 17,743 |
| F. L. Barker | 21 | 11,236 | 10,317 |
| Australasian Mortgage Co., Limited | 14 | 13,135 | 8,776 |
| J. C. Young & Co. | 5 | 2,266 | 1,666 |
| Brunker & Wolfe | 1 | 80 | 80 |
| Other Firms | — | 254 | 221 |
| Total | 247 | 348,534 | 268,599 |

### Shipments to Date.

| Colony. | Date. | 1891–92. Bales. | 1890–91. Bales. | 1889–90. Bales. |
|---|---|---|---|---|
| Victoria | Feb. 1 | 383,710 | 348,506 | 363,198 |
| New South Wales | " 1 | 449,599 | 375,829 | 395,468 |
| South Australia | " 3 | 147,009 | 137,654 | 141,297 |
| Queensland | " 5 | 135,933 | 96,027 | 87,476 |
| West Australia | Dec. 31 | 11,825 | 11 663 | 14,183 |
| Tasmania | Feb. 1 | 14,579 | 14,049 | 13,957 |
| New Zealand | Jan. 31 | 162,883 | 169,072 | 158,348 |
| Total | ..... | 1,305,538 | 1,152,800 | 1,173,927 |

Increase to date as compared with the corresponding period last year, 152,738 bales. The total production will again show a substantial increase, although an estimate would at present be hazardous.

Throughout the whole of the pastoral areas the prospects of the season are prosperous. In New South Wales the rainfall has been somewhat light, but is not a cause for anxiety at present, feed being abundant. Bush fires have been rather prevalent, and in some districts have caused loss.

Rates of freight to London per sailing-vessel are $\frac{3}{8}$d. per lb. for Greasy, and $\frac{1}{2}$d. per lb. for Washed; and per steamer 9-16d. for Greasy, and 11-16d. for Washed, for March-April London sales.

Exchange on London, 60 days' sight at $\frac{1}{2}$ per cent. discount buying, and $\frac{1}{2}$ per cent. premium selling.

## No. 75.—Destination of Australasian Wool Shipments in Bales, 1883-4—1890-91.

*Henry Martin's Circular.*

| Season. | London. | Other Ports in Unit. Kingdom. | Continent of Europe. | United States. | Japan. | Hongkong and Calcutta. | Total. | Increase. |
|---|---|---|---|---|---|---|---|---|
| 1883-4 | . . . . . | * | 50,758 | 22,575 | . . . . . | . . . . . | . . . . . | . . . . . |
| 1884-5 | 1,033,756 | * | 71,469 | 6,621 | . . . . . | . . . . . | 1,111,846 | . . . . . |
| 1885-6 | 1,042,026 | * | 63,859 | 24,457 | . . . . . | 212 | 1,130,554 | 2 per ct. |
| 1886-7 | 1,048,884 | * | 117,699 | 15,138 | . . . . . | 103 | 1,181,824 | 4½ " |
| 1887-8 | 1,153,598 | * | 97,238 | 21,913 | . . . . . | . . . . . | 1,272,749 | 7½ " |
| 1888-9 | 1,157,991 | * | 139,083 | 36,724 | 1,000 | . . . . . | 1,334,798 | 5 " |
| 1889-90 | 1,155,004 | 56,000 | 233,715 | 11,341 | 2,187 | . . . . . | 1,458,247 | 9 " |
| 1890-1 | 1,303,958 | 13,355 | 270,293 | 26,828 | 1,724 | 47 | 1,616,205 | 11 " |

* No record kept.

## No. 76. Detailed Statement for Season, 1890-1.

| | United Kingdom. | | | | | Continent of Europe. | | | | | | | | United States. | Japan. | Hongkong. | Grand Total. |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | London. | Hull. | Goole. | Grimsby. | Total. | Genoa. | Marseilles. | Dunkirk. | Antwerp. | Bremen. | Hamburg. | Optional. | Total. | | | | |
| N. S. Wales . . | 409,679 | 748 | . . . | . . | 410,427 | 149 | 1,387 | 14,280 | 99,131 | 6,513 | 15,289 | [1]13,617 | 150,366 | 2,986 | 465 | 47 | 564,291 |
| Victoria . . . . | 281,118 | 9,535 | 1,607 | 928 | 293 188 | 67 | 1,300 | 32,362 | 53,163 | 4,490 | 9,913 | 479 | 101,774 | 23,385 | 1,259 | . . | 419,606 |
| South Australia, | 136,254 | 537 | . . . | . . | 136,791 | . . | 1,651 | 2,532 | 13,474 | 95 | 401 | . . . | 18,153 | 457 | . . . | . . | 155,401 |
| Queensland . . | 121,070 | . . . | . . . | . . | 121,070 | . . | . . . | . . . | . . . . | . . . | . . . | . . . | . . . . | . . . | . . . | . . | 121,070 |
| West. Australia, | 25,564 | . . . | . . . | . . | 25,564 | . . | . . . | . . . | . . . . | . . . | . . . | . . . | . . . . | . . . | . . . | . . | 25,564 |
| Tasmania . . . | 20,273 | . . . | . . . | . . | 20,273 | . . | . . . | . . . | . . . . | . . . | . . . | . . . | . . . . | . . . | . . . | . . | 20,273 |
| New Zealand . | 310,000 | . . . | . . . | . . | 310,000 | . . | . . . | . . . | . . . . | . . . | . . . | . . . | . . . . | . . . | . . . | . . | 310,000 |
| | 1,303,958 | 10.820 | 1,607 | 928 | 1,317,313 | 216 | 4,338 | 49,174 | 165,768 | 11,098 | 25,603 | 14,096 | 270,293 | 26,828 | 1,724 | 47 | 1,616,205 |

[1] Chiefly Antwerp, option some other continental port.

## ARGENTINE REPUBLIC.

### No. 77.—Official Return of Exports of Wool and Sheepskins.

| Year. | Unwashed Wool. | | Unwashed Sheepskins. | | Amt. of Wool on Sheepskins.[1] | Total. |
|---|---|---|---|---|---|---|
| | Quintals.[2] | English lbs. | Quintals. | English lbs. | English lbs. | English lbs. |
| 1866 | 1,176,505 | 119,144,661 | 226,289 | 22,916,286 | 18,333,029 | 137,477,690 |
| 1867 | 1,380,412 | 139,794,323 | 299,832 | 30,363,987 | 24,291,190 | 164,085,513 |
| 1868 | 1,353,327 | 137,053,426 | *Kilos.* 30,137,883 | 66,441,977 | 53,153,582 | 190,207,008 |
| 1869[3] | | | | | | |
| 1870 | *Kilos.*[4] 65,704,224 | 144,851,532 | 26,427,383 | 58,261,808 | 46,609,447 | 191,460,979 |
| 1871 | 71,564,980 | 157,772,154 | 20,854,506 | 45,975,844 | 36,780,675 | 194,552,829 |
| 1872 | 92,426,137 | 203,762,661 | 33,177,246 | 73,142,556 | 58,514,045 | 262,276,706 |
| 1873 | 83,733,245 | 184,598,311 | 25,175,055 | 55,500,926 | 44,400,741 | 228,999,052 |
| 1874 | 80,206,652 | 176,823,584 | 24,502,558 | 54,018,339 | 43,214,671 | 220,038,255 |
| 1875 | 90,720,408 | 200,002,211 | 29,524,642 | 65,090,026 | 52,072,021 | 252,074,232 |
| 1876 | 89,259,122 | 196,780,660 | 27,597,973 | 60,842,491 | 48,673,993 | 245,454,653 |
| 1877 | 97,310,463 | 214,530,646 | 27,849,009 | 61,396,087 | 49,116,870 | 263,647,516 |
| 1878 | 81,708,196 | 180,133,889 | 27,848,592 | 61,395,006 | 49,116,005 | 229,249,894 |
| 1879 | 91,951,094 | 202,715,382 | 25,088,878 | 55,310,940 | 44,248,752 | 246,964,134 |
| 1880 | 97,145,801 | 214,167,633 | 29,077,187 | 64,103,566 | 51,282,853 | 265,450,486 |
| 1881 | 103,876,955 | 229,007,135 | 22,339,591 | 49,249,862 | 39,399,890 | 268,407,025 |
| 1882 | 111,009,796 | 244,732,196 | 22,353,021 | 49,279,470 | 39,423,576 | 284,155,772 |
| 1883 | 118,403,668 | 261,032,726 | 26,564,619 | 58,564,359 | 46,851,487 | 307,884,213 |
| 1884 | 114,344,648 | 252,084,211 | 24,938,623 | 54,979,688 | 43,983,750 | 296,067,961 |
| 1885 | 128,393,000 | 283,055,000 | 31,336,000 | 64,083,000 | 55,266,400 | 338,321,400 |
| 1886 | 132,130,000 | 291,294,000 | 35,312,000 | 77,851,000 | 62,280,800 | 353,574,800 |
| 1887 | 109,164,000 | 240,663,000 | 30,447,000 | 67,123,000 | 53,698,400 | 294,361,400 |
| 1888 | 131,743,000 | 290,441,000 | 28,054,000 | 61,848,000 | 49,478,400 | 339,919,400 |
| 1889 | 141,769,000 | 312,544,000 | 36,376,000 | 80,195,000 | 64,156,000 | 376,700,000 |
| 1890[5] | 102,550,000 | 226,082,000 | 18,522,000 | 40,834,000 | 32,667,200 | 258,749,200 |

[1] It is estimated that in unwashed sheepskins the wool is 80 per cent. of the weight.
[2] Argentine quintal is 101 27-100 lbs.
[3] Figures for 1869 are wanting.
[4] Kilo is 2.2046 lbs.
[5] Nine months.

## ARGENTINE REPUBLIC.

### No. 78.—Sheep Census.

| Year. | Number of Sheep. | Year. | Number of Sheep. | Year. | Number of Sheep. |
|---|---|---|---|---|---|
| 1857 . . . . | 15,989,405 | 1868 . . . | 58,463,728 | 1879 . . . | 86,505,596 |
| 1858 . . . . | 17,796,897 | 1869 . . . | 59,677,986 | 1880 . . . | 91,582,206 |
| 1859 . . . . | 17,524,174 | 1870 . . . | 61,704,827 | 1881 . . . | 98,380,474 |
| 1860 . . . . | 16,262,827 | 1871 . . . | 67,288,850 | 1882 . . . | 104,252,680 |
| 1861 . . . . | 25,733,489 | 1872 . . . | 86,800,195 | 1883 . . . | 111,196,488 |
| 1862 . . . . | 25,560,848 | 1873 . . . | 78,636,440 | 1884 . . . | 107,384,540 |
| 1863 . . . . | 35,258,038 | 1874 . . . | 75,324,508 | 1885 . . . | 120,578,023 |
| 1864 . . . . | 38,617,466 | 1875 . . . | 85,188,297 | 1886 . . . | 124,087,767 |
| 1865 . . . . | 51,650,184 | 1876 . . . | 83,841,674 | 1887 . . . | 103,413,817 |
| 1866 . . . . | 50,820,526 | 1877 . . . | 91,418,696 | | |
| 1867 . . . . | 59,638,071 | 1878 . . . | 76,909,312 | | |

### No. 79.—River Platte Wools and Sheepskins, Imports into Europe and North America, 1887-1891.

*Helmuth Schwartze & Co.*

Total imports into Europe and North America for the season from 1st November to 31st October:

| | 1890–91. | 1889–90. | 1888–89. | 1887–88. | 1886–87. |
|---|---|---|---|---|---|
| Into Europe, | 362,000 bls. | 303,000 bls. | 402,000 bls. | 358,000 bls. | 329,000 bls. |
| " U. States | 18,000 " | 14,000 " | 19,000 " | 16,000 " | 13,000 " |
| Totals . . | 380,000 bls. | 317,000 bls. | 421,000 bls. | 374,000 bls. | 342,000 bls. |

London Prices.

| | Yield. | Dec. '90. | Jan. | Mar. | June. | Sept. | Nov. '91. |
|---|---|---|---|---|---|---|---|
| B. Ayres Mrno. & 1st super cmbg. . . . . | 40% | 8½*d.* | 8½*d.* | 8¼*d.* | 8¼*d.* | 7¾*d.* | 7¼*d.* |
| B. Ayres 1st good av. cmbg. | 35% | 7 | 7 | 6¾ | 6¾ | 6½ | 6 |
| " " average . . . | 30% | 5¾ | 5¾ | 5½ | 5½ | 5¼ | 5 |
| Monte Video 1st average . . | 38% | 7¼ | 7¼ | 7 | 7 | 6¾ | 6¼ |

Sheepskins.

The total imports into Europe were 64,000 bales, against 72,000, 104,000, 72,000, and 82,000 bales in the four preceding years.

Fluctuations in Liverpool:

| | Dec. '90. | Feb. | Apr. | June. | Aug. | Sept. | Nov. | Dec. '91. |
|---|---|---|---|---|---|---|---|---|
| B. Ayres full-wooled Matadero, per lb. . | 5¾*d.* | 6*d.* | 6*d.* | 6*d.* | 6¼*d.* | 6*d.* | 5½*d.* | 5¼d. |

## No. 80.—Uruguay, 1889.

Exports of Wool, 1889.[1]

| Country. | | Value. |
|---|---|---|
| | *Pounds.* | |
| Belgium | 34,196,521 | $3,102,288 |
| France | 32,677,048 | 2,976,442 |
| Germany | 11,378,304 | 1,032,233 |
| Argentine Republic | 6,476,182 | 587,516 |
| United States | 2,946,124 | 267,271 |
| England | 2,197,164 | 199,305 |
| Italy | 541,584 | 49,132 |
| Portugal | 186,178 | 16,890 |
| Spain | 8,642 | 784 |
| Brazil | 168,376 | 15,274 |
| Not specified | 9,254,357 | 902,797 |
| Total | 100,030,480 | $9,149,932 |

[1] The exports of wool from Montevideo are not confined to the clip of Uruguay.

### Report of Consul Hill, of Montevideo, 1890.

The number of sheep in Uruguay was estimated at 10,000,000 in 1885, and at 12,000,000 in 1889.

The clip of 1889 was 42,000,000 pounds, valued at $714,000, or 17 cents per pound.

The average yield was 3½ pounds per sheep.

Average size of flocks 1,200 to 1,500. Loss in weight of fleece in washing 25 to 30 per cent. Vermont Merinos introduced in 1886.

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## Paraguay.

Number of Sheep and Goats:

| | |
|---|---|
| 1877 | 6,668 |
| 1886 | 32,351 |
| 1890 | 77,576 |

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## Brazil.

The total wool clip of Brazil is estimated in the United States Consular reports for 1891 at 850,000 kilos, the weight of the fleeces being from 1½ to 2 kilos.

## No. 81.—Quantities and Values of Manufactures of Wool Imported into and of Wool Exported from Natal, 1875-1890.

*British Board of Trade Reports.*

| Years. | Imports. | | | | Exports. | |
|---|---|---|---|---|---|---|
| | Manufactures of Wool. | | | | Wool, raw. | |
| | Blankets. | | Other Manufactures. | | | |
| | *Pounds.* | £ | *Yards.* | £ | *Pounds.* | £ |
| 1875 . . | 42,852 | 27,664 | 270,456 | 19,961 | 8,109,447 | 389,285 |
| 1876 . . | 63.261 | 38,481 | 98,164 | 9,632 | 8,550,177 | 366,280 |
| 1877 . . | 32,252 | 16,818 | 152,063 | 13,418 | 10,012,356 | 383,019 |
| 1878 . . | 72,358 | 37,101 | 207,515 | 16,368 | 12,077,966 | 429,657 |
| 1879 . . | 119,872 | 61,902 | 389,702 | 19,972 | 12,029,216 | 415,890 |
| 1880 . . | 176,116 | 106,461 | 356,035 | 23,310 | 15,283,049 | 529,321 |
| 1881 . . | 86,974 | 43,949 | 152,697 | 10,842 | 12,578,781 | 450,938 |
| 1882 . . | 131,212 | 73,183 | 361,103 | 21,011 | 14,056,126 | 481,449 |
| 1883 . . | 74,390 | 43,031 | 317,654 | 19,345 | 15,826,915 | 519,161 |
| 1884 . . | 74,660 | 35,147 | 428,164 | 21,863 | 17,330,981 | 523,377 |
| 1885 . . | . . . . . | . . . . . | . . . . . | . . . . . | 55,950 | 13,418,624 | 474,861 |
| 1886 . . | . . . . . | . . . . . | . . . . . | . . . . . | 47,127 | 13,954,909 | 488,943 |
| 1887 . . | . . . . . | . . . . . | . . . . . | . . . . . | 102,068 | 18,904,230 | 725.049 |
| 1888 . . | . . . . . | . . . . . | . . . . . | . . . . . | 137,686 | 24,240,517 | 923,969 |
| 1889 . . | . . . . . | . . . . . | . . . . . | . . . . . | 153,286 | 20,421,084 | 800,068 |
| 1890 . . | . . . . . | . . . . . | . . . . . | . . . . . | 148,431 | 23,312,520 | 949,631 |

## No. 82.—Values of Manufactures of Wool Imported into and the Quantities and Values of Wool Exported from the Cape of Good Hope, 1875-1890.

*British Board of Trade Reports.*

| Years. | Imports. | Exports. | |
|---|---|---|---|
| | Manufactures of Wool. | Wool, raw. | |
| | £ | *Pounds.* | £ |
| 1875 . . . . . | 266,867 | 40,339,674 | 2,855,899 |
| 1876 . . . . . | 225,563 | 34,861,339 | 2,278,942 |
| 1877 . . . . . | 163,813 | 36,020,571 | 2,232,755 |
| 1878 . . . . . | 198,521 | 32,127,167 | 1,888,928 |
| 1879 . . . . . | 279,456 | 40,087,593 | 2,156,609 |
| 1880 . . . . . | 308,627 | 42,467,962 | 2,429,360 |
| 1881 . . . . . | 312,090 | 42,770,244 | 2,181,937 |
| 1882 . . . . . | 394,657 | 41,689,119 | 2,062,180 |
| 1883 . . . . . | 181,850 | 38,029,495 | 1,992,745 |
| 1884 . . . . . | 140,722 | 37,270,615 | 1,745,193 |
| 1885 . . . . . | 178,331 | 38,858,656 | 1,693,992 |
| 1886 . . . . . | 151,090 | 52,775,653 | 2,138,513 |
| 1887 . . . . . | 216,061 | 55,164,383 | 2,565,475 |
| 1888 . . . . . | 292,340 | 69,696,717 | 3,011,616 |
| 1889 . . . . . | 338,725 | 78,737,162 | 3,514,031 |
| 1890 . . . . . | 425,602 | 72,832,937 | 3,198,879 |

## No. 83.—Wool Production of South Africa, 1888-1891.

HELMUTH SCHWARTZE & Co.

Imports for the calendar year 1891 into England, 316,510 bales, against 283,494 bales in 1890; into Continent direct, 6,324 bales, against 2,663 bales in 1890. The following gives the production of South Africa during the past four seasons: —

| IMPORT SEASON. | 1891. | 1890. | 1889. | 1888. |
|---|---|---|---|---|
| CAPE — | *Bales.* | *Bales.* | *Bales.* | *Bales.* |
| Into England (for the 5 series) | 307,6?4 | 278,719 | 302,816 | 280,186 |
| (of which for the London Market) | 152,000 | 177,000 | 172.000 | 168,000 |
| (of which forwarded to Interior) | 58,000 | 22,000 | 30,000 | 21,000 |
| (of which forwarded to Continent) | 95,000 | 79,000 | 100,000 | 91,000 |
| (of which forwarded to America) | 3,000 | 1,000 | 1,000 | . . . . |
| Into Continent direct | 6,324 | 2,663 | . . . . | 1,398 |
| Into America direct | 7,686 | 6,724 | 7,103 | 7,968 |
| Total | 321,704 | 288,106 | 309,919 | 289,552 |
| **Viz.** — Western Province | 26,933 | 23,482 | 28,231 | 24,190 |
| Eastern Province | 217,390 | 190,037 | 203,223 | 189,418 |
| Natal and Interior | 77,381 | 74,587 | 78,465 | 75,944 |

## CANADA.

### No. 84. — Imports of Shoddy and Wool, 1890 and 1891.

SHODDY.

| | 1890. | | 1891. | |
|---|---|---|---|---|
| | *Lbs.* | *Value.* | *Lbs.* | *Value.* |
| From Great Britain . . | 40,387 | $8,597 | 78,669 | $15,771 |
| " United States . . | 65,804 | 8,907 | 42,311 | 1,696 |
| | 106,191 | $17,504 | 120,980 | $17,467 |

WOOLS, WASHED AND UNWASHED.

| | *Lbs.* | *Value.* | *Lbs.* | *Value.* |
|---|---|---|---|---|
| From Great Britain . . | 3,177,752 | $678,097 | 2,503,592 | $538,004 |
| " United States . . | 3,824,114 | 691,599 | 3,513,328 | 555,100 |
| " Australia . . . . | 944,733 | 186,686 | 979,412 | 217,319 |
| " South Africa . . | 408,864 | 57,643 | 516,074 | 59,552 |
| " East Indies . . . | 7,547 | 1,521 | | |
| " West Indies . . . | . . . . . | . . . . . | 696 | 86 |
| " France . . . . . | 477,217 | 102,063 | 224,118 | 58,682 |
| " Germany . . . . | 65,034 | 11,447 | 82,396 | 15,771 |
| " Belgium . . . . . | . . . . . | . . . . . | 29,443 | 4,334 |
| | 8,905,261 | $1,729,056 | 7,849,059 | $1,448,848 |
| Domestic Clip . . . . . | 12,000,000 | | | |
| Noils imported . . . . | . . . . . | 38,997 | | |

The wools imported from the United States are nearly all Cape, South American, and Australian, forwarded in bond from Boston and New York.

The exports of domestic wool from the United States to Canada, in 1890, amounted to 40,821 pounds, valued at $8,622.

### No. 85. — Canada Wool Exports to the United States.

| | 1890. | | 1891. | |
|---|---|---|---|---|
| | *Lbs.* | *Value.* | *Lbs.* | *Value.* |
| Class 1, Combing wool . | 916,713 | $209,227 | . . . . . | . . . . . |
| Class 2, Clothing wool . | 185,665 | 45,496 | . . . . . | . . . . . |
| Total . . . . . | 1,102,378 | 254,723 | 1,107,560 | $245,322 |

### No. 86. — Canadian Woolen Mills.

| | 1871. | 1881. |
|---|---|---|
| No. establishments . . . . . | 262 | 1,281 |
| " hands employed . . . . . | 4,453 | |
| Annual value products . . . . . | $5,507,549 | $8,113,055 |
| HOSIERY MILLS. | | |
| No. . . . . | 11 | 83 |
| " hands . . . . . | 245 | 1,526 |
| Value products . . . . . | $199,122 | $1,385,730 |

The figures for the census of 1891 are not yet available.

## No. 87.—Manufactures of Wool Imported into Canada.

*(Year ending June 30, 1891.)*

TRADE AND NAVIGATION REPORTS—DOMINION OF CANADA.

| | Quantity. | Value. |
|---|---|---|
| | *Pounds.* | |
| Blankets | 163,120 | $54,433 |
| Flannels | 244,499 | 196,376 |
| Cloths, cassimeres, overcoatings, etc. | 4,216,776 | 3,246,114 |
| Knit Goods, hosiery, etc. | 681,255 | 733,766 |
| Felts | 24,224 | 22,453 |
| Yarns | 165,479 | 127,616 |
| Clothing | 618,926 | 853,532 |
| All other | 310 | 269 |
| Total | 6,114,589 | $5,234,559 |
| Shawls | | $118,834 |
| Boot and shoe linings | | 2,498 |
| Total | | $121,332 |
| | *Yards.* | |
| Fabrics not specified | 20,569,831 | $3,355,840 |
| Winceys | 111,333 | 7,469 |
| Total | 20,681,164 | $3,363,309 |
| | *Sq. Yds.* | |
| Carpets | | |
| Ingrains | 137,277 | $64,487 |
| | *Yards.* | |
| All other imports, except felt | 2,338,272 | 1,023,043 |
| | *Pounds.* | |
| Felt | 240,835 | 101,001 |
| Total | | $1,188,531 |
| Grand total | | $9,907,731 |

## No. 88.—The Canadian Woolen Tariff.

| | |
|---|---|
| Wool. Class 1, viz.: Leicester, Cotswold, Lincolnshire, South down combing wools, or wools known as lustre wools, and other like combing wools, such as are grown in Canada, | Lb. 0.03 |
| Manufactures composed wholly or in part of wool, worsted, the hair of the Alpaca goat, or other like animals, viz.: Blankets and flannels of every description; cloths, doeskins, cassimeres, tweeds, coatings, overcoatings, felt cloth of every description, not elsewhere specified; horse-collar cloth; yarn, knitting yarn, fingering yarn, worsted yarn; knitted goods, viz.: shirts and drawers, and hosiery not elsewhere specified | Lb. 0.10 and 20% ad val. |
| All fabrics composed wholly or in part of wool, worsted, the hair of the Alpaca goat, or other like animals, not otherwise provided for, on all such goods costing 10 cents per yard and under | 22½% ad val. |
| Costing over 10 and under 14 cents | 25% ad val. |
| Costing 14 cents and over | 27½% ad val. |
| Felt, pressed, of all kinds, not filled or covered by or with any woven fabric | 17½% ad val. |
| Carpets, viz.: Brussels, tapestry, Dutch, Venetian, and damask; carpet mats and rugs of all kinds not elsewhere specified; and printed felts and druggets, and all other carpets and squares not otherwise provided for | 25% ad val. |
| Smyrna carpets, mats, and rugs | 30% ad val. |
| Two-ply and three-ply ingrain carpets of which the warp is composed wholly of cotton or other material than wool, worsted, the hair of the Alpaca goat, or other like animal | Sqr. yd. 0.05 and 20% ad val. additi'l. |
| Treble ingrain, three-ply, and two-ply carpets composed wholly of wool | Sqr. yd. 0.10 and 20% ad val. |
| Socks or stockings of cotton, wool, worsted, the hair of the Alpaca goat, or other like animal | Lb. 0.10 and 30% ad val. |
| Horse-clothing, shaped, not otherwise provided for | 30% ad val. |
| Clothing, ready-made and wearing apparel of every description, including horse-clothing, shaped, composed wholly or in part of wool, worsted, the hair of the Alpaca goat or other like animal, made up by the tailor, seamstress, or manufacturer, not otherwise provided for | Lb. 0.10 and 25% ad val. |
| Shawls and travelling rugs of all kinds and materials, except silk | 25% ad val. |

Free List.—Yarn spun from the hair of the Alpaca or Angora goat, when imported by manufacturers of braids for use exclusively in their factories in the manufacture of such braids only, under such regulations as may be adopted by the Minister of Customs.

## No. 89. — The World's Wool Supply Since 1860.

THE FIGURES PRIOR TO 1891 ARE THE ESTIMATES OF THE LONDON BOARD OF TRADE.

| COUNTRIES. | 1860. | 1870. | 1880. | 1889. | 1891. |
|---|---|---|---|---|---|
| | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* | *Pounds.* |
| United Kingdom | 140,000,000 | 150,000,000 | 149,000,000 | 134,000,000 | 147,475,000 |
| Continent of Europe | 500,000,000 | 485,000,000 | 450,000,000 | 450,000,000 | 639,917,000 |
| North America | 110,000,000 | 176,000,000 | 270,000,000 | 330,000,000 | 319,100,000 |
| Australasia | 60,000,000 | 175,000,000 | 308,000,000 | 450,000,000 | 550,000,000 |
| Cape of Good Hope | 26,000,000 | 43,000,000 | 60,000,000 | 70,000,000 | 128,681,600 |
| River Plate | 43,000,000 | 197,000,000 | 256,000,000 | 360,000,000 | 376,700,000 |
| Other Countries | 76,000,000 | 69,000,000 | 133,000,000 | 156,000,000 | 294,900,000 |
| Grand Totals | 955,000,000 | 1,295,000,000 | 1,626,000,000 | 1,950,000,000 | 2,456,773,600 |

## No. 90. — The World's Wool Production in 1891.

The following table is based upon the estimates of Dr. F. X. von Newmann Spallart, Stuttgart, published in 1887. His figures of wool production are given in the first column; our own in the second. The additional information is derived mainly from United States Consular Reports, and Mulhall's Dictionary of Statistics.

| Countries of Production. | 1887. | 1891. |
|---|---|---|
| Europe: | *Pounds.* | *Pounds.* |
| Russia | 262,966,000 | 291,500,000 |
| Great Britain and Ireland | 135,936,000 | 147,475,000 |
| France | 80,138,000 | 124,803,000 |
| Spain | 66,138,000 | 66,138,000 |
| Germany | 54,894,000 | 54,894,000 |
| Hungary | 43,146,000 | 43,146,000 |
| Italy | 21,385,000 | 21,385,000 |
| Austria | 11,155,000 | 11,155,000 |
| Portugal | 10,362,000 | 10,362,000 |
| Belgium | 4,409,000 | 4,409,000 |
| Sweden | 3,307,000 | 3,307,000 |
| All other Europe | 8,818,000 | 8,818,000 |
| Total Europe | 702,654,000 | 762,589,000 |
| North America: | | |
| United States | 307,588,000 | 307,100,000 |
| British North American Provinces | 4,409,000 | 12,000,000 |
| South America: | | |
| Argentine Republic (exports 1885) | 283,047,000 | 376,700,000 |
| Brazil | . . . . . | 1,875,000 |
| Peru | . . . . . | 6,700,000 |
| Uruguay (exports 1884) | 59,084,000 | 42,000,000 |
| Australasia | 455,470,000 | 550,000,000 |
| Asia: | | |
| British East Indies (exports 1885–6) | 23,126,000 | 72,000,000 |
| Russia | . . . . . | 66,000,000 |
| Turkey, Asiatic and Persia (estimated) | 13,228,000 | |
| Afghanistan, Beluchistan, & Thibet exports to India | . . . . . | 12,200,000 |
| Sivas, Syria } Asiatic Turkey | . . . . . | 8,300,000 |
| Mesopotamia | . . . . . | 31,555,000 |
| Persia (exports to India) | . . . . . | 3,470,000 |
| Africa: | | |
| Cape Colony (exports 1885) | 29,299,000 | 128,681,600 |
| Natal (exports 1885) | 17,306,000 | |
| Egypt | . . . . . | 2,800,000 |
| All other countries | 88,185,000 | 48,000,000 |
| Total production | 1,983,396,000 | 2,456,773,600 |

## No. 91. — Number of Sheep in the World.

The following table is based upon the estimates made by Hon. J. R. Dodge, Statistician of the Department of Agriculture, for the Special Report of the Bureau of Statistics on Wool and its manufacture, published in 1886. All available data, including the U. S. Consular Reports, has been carefully considered in making up the estimates for 1891. In the absence of information we do not change Mr. Dodge's figures. There is no doubt that the sheep industry is declining in France, Germany, Spain, Austria-Hungary, and Italy, and somewhat increasing in Russia, where the home consumption is enormous.

| Countries. | Years. | Sheep and Lambs. |
|---|---|---|
| North America: | | |
| United States | 1892 | 44,938,365 |
| Canada: | | |
| Ontario and Quebec | 1881 | 2,249,011 |
| Nova Scotia | 1881 | 377,801 |
| New Brunswick | 1881 | 221,163 |
| Manitoba and the North-West | 1891 | 77,000 |
| Prince Edward Island | 1881 | 166,496 |
| Total | | 3,091,471 |
| Newfoundland | 1891 | 40,000 |
| Central America | 1891 | 700,000 |
| Jamaica | 1885 | 13,390 |
| Guadaloupe | 1880 | 13,690 |
| Guatemala | 1884 | 417,577 |
| Mexico | 1891 | 2,000,000 |
| South America: | | |
| Argentine Republic | 1887 | 103,413,817 |
| Brazil | 1891 | 500,000 |
| Chili | 1891 | 2,500,000 |
| Falkland Islands | 1885 | 516,975 |
| Uruguay | 1891 | 13,000,000 |
| Paraguay | 1891 | 77,576 |
| Venezuela | 1883 | [1] 3,490,563 |
| Europe: | | |
| Austria-Hungary: | | |
| Austria | 1880 | 3,841,340 |
| Hungary | 1884 | 10,594,831 |
| Belgium | 1891 | 370,000 |
| Denmark | 1881 | 1,548,613 |
| France | 1885 | 22,900,000 |
| Germany | 1891 | 20,000,000 |
| Great Britain and Ireland, etc. | 1891 | 33,533,988 |
| Greece | 1891 | 5,970,000 |
| Italy | 1881 | 8,596,108 |
| Netherlands | 1884 | 752,949 |
| Portugal | 1891 | 2,980,000 |
| Roumania | 1884 | 4,654,776 |
| Russia in Europe | 1891 | 53,000,000 |
| Servia | 1882 | 3,620,750 |
| Spain | 1891 | 22,800,000 |
| Sweden and Norway: | | |
| Sweden | 1891 | 1,440,000 |
| Norway | 1875 | 1,686,306 |
| Switzerland | 1891 | 340,000 |
| Turkey in Europe | 1891 | 10,000,000 |

[1] Includes also goats.

**Number of Sheep in the World.** — *Concluded.*

| Countries. | Years. | Sheep and Lambs. |
|---|---|---|
| Eastern Roumelia | 1883 | 1,858,839 |
| Asia: | | |
| Russia: | | |
| Caucasia and Transcaucasia | 1891 | 12,000,000 |
| India: | | |
| Madras | 1891 | [1] 12,063,471 |
| Bombay and Sind | 1878 | [1] 3,300,000 |
| Punjab | 1891 | [1] 6,551,180 |
| Central Provinces | 1878 | [1] 641,000 |
| British Burmah | 1878 | [1] 20,000 |
| Mysore | 1878 | [1] 1,590,000 |
| Berar | 1878 | [1] 386,000 |
| Ceylon | 1884 | 53,757 |
| Turkey in Asia: | | |
| Mesopotamia: | | |
| Angora | 1891 | [1] 1,223,699 |
| Bagdad | 1891 | 2,037,431 |
| Bassorah | 1891 | 956,000 |
| Diarbekir | 1891 | 1,053,000 |
| Kastamoonee | 1891 | [1] 1,061,816 |
| Konieh, or Iconium | 1891 | 1,020,000 |
| Mosul | 1891 | 1,211,000 |
| Sivas | 1891 | 2,097,330 |
| Syria | 1891 | 3,831,359 |
| Africa: | | |
| Algeria | 1891 | 9,357,000 |
| Egypt | 1891 | 1,040,577 |
| Cape of Good Hope | 1891 | [1] 17,770,200 |
| Natal | 1885 | 535,482 |
| Mauritius | 1884 | [1] 30,000 |
| Orange Free State | 1881 | 5,056,301 |
| Australasia | 1891 | 114,628,301 |
| Oceania: | | |
| Fiji Islands | 1884 | 5,869 |
| Tahiti and Moorea | 1883 | 3,000 |
| Total | | 584,725,697 |

[1] Includes also goats.

**No. 92.—Comparative Quantities of Wool Manufactured, United States, England, France, and Germany.**

| | 1866. | 1876. | 1884. | 1890. |
|---|---|---|---|---|
| United States (imported and home grown) . . . | 229,707,000 | 235,020,000 | 376,036,000 | 415,000,000 |
| United Kingdom (imported and home grown), | 313,000,000 | 369,000,000 | 381,000,000 | 470,000,000 |
| France . . . . . | *190,119,000 | *271,484,000 | *365,767,000 | 420,000,000 |
| Germany . . . . . | No returns. | *143,260,000 | *232,962,000 | 340,000,000 |

*Home grown not included.

## CHINA.

### Exports of Wool, 1880-1890.

*U. S. Consul-General, J. A. Leonard.*

| Year. | *Pounds* | Year. | *Pounds.* |
|---|---|---|---|
| 1880 . . . . . | 787,759 | 1886 . . . . . | 3,466,778 |
| 1881 . . . . . | 967,841 | 1887 . . . . . | 5,140,810 |
| 1882 . . . . . | 1,157,100 | 1888 . . . . . | 6,643,350 |
| 1883 . . . . . | 1,827,686 | 1889 . . . . . | 9,829,498 |
| 1884 . . . . . | 2,645,970 | 1890 . . . . . | 10,659,152 |
| 1885 . . . . . | 3,237,885 | | |

In Austria there are 10 worsted spinning-mills, with 240,000 spindles; 450 spindles for woolen yarns; 6,800 power-looms, and 10,000 hand-looms for woolen goods; 12,500 power-looms, and 9,000 hand-looms for worsted goods.

In Spain there are in operation 1,170 cards, 662,000 spindles, 5,600 common looms, and 1,900 Jacquard looms.

In Sweden there are 96 wool-yarn spinning-mills, employing 1,281 persons, and producing goods valued at $191,246; 44 cloth mills, employing 4,398 persons, and producing goods valued at $574,388.

GERMANY.—Statistics of German wool manufactures are very meagre, the latest being for 1886, and showing 150 mills for wool cleaning; 1,182 yarn mills, 135 shoddy and mungo-mills, 1,209 weaving-mills, and 1,155 dyeing and printing-mills, employing, all told, 137,456 persons, of whom 64,708 were in weaving mills and 42,294 in yarn mills.

## No. 93. — Mulhall's Estimate of the World's Wool Production.

*Dictionary of Statistics.*

| | Millions of Lbs. | | | | |
|---|---|---|---|---|---|
| | **1820.** | **1840.** | **1860.** | **1880.** | **1887.** |
| United Kindom | 100 | 121 | 155 | 176 | 160 |
| France | 116 | 144 | 150 | 117 | 126 |
| Germany | 64 | 85 | 125 | 120 | 105 |
| Russia | 102 | 126 | 164 | 203 | 240 |
| Austria | 60 | 72 | 81 | 80 | 70 |
| Italy | 18 | 23 | 23 | 30 | 32 |
| Spain | 40 | 42 | 58 | 70 | 70 |
| Portugal | 4 | 5 | 8 | 10 | 10 |
| Scandinavia | 15 | 20 | 23 | 26 | 26 |
| Various | 7 | 8 | 8 | 17 | 16 |
| Europe | 526 | 646 | 795 | 849 | 855 |
| United States | 20 | 65 | 75 | 233 | 320 |
| River Plate | 4 | 15 | 56 | 280 | 360 |
| Cape Colony | 2 | 10 | 28 | 52 | 82 |
| Australia | 2 | 14 | 70 | 390 | 420 |
| Various | 6 | 36 | 84 | 184 | 181 |
| Total | 560 | 786 | 1,108 | 1,988 | 2,218 |

## No. 94.—Average Weights of Bales of Wool.

| | |
|---|---|
| **Domestic.** | |
| Ohio, per bag | 200 |
| Michigan, per bag | 220 |
| Indiana, per bag | 175 |
| Texas, per bag | 210 |
| Utah greasy, per bag | 325 |
| Montana greasy, per bag | 290 |
| California scoured, per bale | 400 |
| California greasy, per bale | 500 |
| Eastern Oregon greasy, per bale | 540 |
| Valley Oregon greasy, per bale | 520 |
| Territory, per bale | 300 |
| **Foreign.** | |
| Australian, per bale | 350 |
| New South Wales greasy wool, average per bale | 400 |
| New South Wales scoured, average per bale | 260 |
| Cape, per bale | 400 |
| Cordova, per bale | 1,000 |
| Montevideo, per bale | 1,000 |
| Donskoi, per bale | 500 |
| Donskoi, washed fleeces, per sack | 200 |
| Donskoi, unwashed | 300 |
| English combing, per sheet | 600 |
| Scotch carpet, per sheet | 600 |
| Scotch carpet, per bag | 250 |
| Aleppo, per bale | |
| East India, Karadi, Bagdad, Turkish and Levant, | 350 |
| River Plate | 800 |

English wools vary from 500 to 600 lbs.

# MANUFACTURERS' TABLES.

## No. 95.—Woolen.

1 yard = 1 thread, or round of the woollen reel.
80 yards = 1 knot.
300 " = 3¾ knots = 1 cut.
1,600 " = 20 " = 5⅓ cuts = 1 run.
2,000 " = 25 " = 6⅔ " = 1¼ " = 1 bier.

The number of runs in one pound is the number of woollen yarn.

The number of yards of woollen yarn that weighs 4.375 grains is the number of the yarn.

*Table for numbering Woolen Yarn by the weight in grains of twenty yards, or one-fourth of a knot.*

| Grains. | Runs. | Grains. | Runs. | Grains. | Runs. | Grains. | Runs. | Grains. | Runs. | Grains. | Runs. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 87.50 | 18 | 4.86 | 35 | 2.50 | 52 | 1.68 | 69 | 1.27 | 86 | 1.02 |
| 2 | 43.75 | 19 | 4.61 | 36 | 2.43 | 53 | 1.65 | 70 | 1.25 | 87 | 1.01 |
| 3 | 29.17 | 20 | 4.37 | 37 | 2.36 | 54 | 1.62 | 71 | 1.23 | 88 | .99 |
| 4 | 21.87 | 21 | 4.17 | 38 | 2.30 | 55 | 1.59 | 72 | 1.22 | 89 | .98 |
| 5 | 17.50 | 22 | 3.98 | 39 | 2.24 | 56 | 1.56 | 73 | 1.20 | 90 | .97 |
| 6 | 14.58 | 23 | 3.80 | 40 | 2.19 | 57 | 1.54 | 74 | 1.18 | 91 | .96 |
| 7 | 12.50 | 24 | 3.65 | 41 | 2.13 | 58 | 1.51 | 75 | 1.17 | 92 | .95 |
| 8 | 10.94 | 25 | 3.50 | 42 | 2.08 | 59 | 1.48 | 76 | 1.15 | 93 | .94 |
| 9 | 9.72 | 26 | 3.37 | 43 | 2.03 | 60 | 1.46 | 77 | 1.14 | 94 | .93 |
| 10 | 8.75 | 27 | 3.24 | 44 | 1.99 | 61 | 1.43 | 78 | 1.12 | 95 | .92 |
| 11 | 7.95 | 28 | 3.12 | 45 | 1.94 | 62 | 1.41 | 79 | 1.11 | 96 | .91 |
| 12 | 7.29 | 29 | 3.02 | 46 | 1.90 | 63 | 1.38 | 80 | 1.09 | 97 | .90 |
| 13 | 6.73 | 30 | 2.92 | 47 | 1.86 | 64 | 1.37 | 81 | 1.08 | 98 | .89 |
| 14 | 6.25 | 31 | 2.82 | 48 | 1.82 | 65 | 1.35 | 82 | 1.07 | 99 | .88 |
| 15 | 5.83 | 32 | 2.73 | 49 | 1.79 | 66 | 1.33 | 83 | 1.05 | 100 | .87 |
| 16 | 5.47 | 33 | 2.65 | 50 | 1.75 | 67 | 1.31 | 84 | 1.04 | | |
| 17 | 5.15 | 34 | 2.57 | 51 | 1.72 | 68 | 1.29 | 85 | 1.03 | | |

The number of yarn of different sizes represents the proportionate size of No. 1 yarn, and to determine the size or number of a thread composed of strands of different numbers twisted together, it is only necessary to add together the proportionate sizes of the separate strands. A single example will illustrate:

3 run, 4 run, 5 run, and 6 run twisted together will make yarn the size of $\frac{1}{3} + \frac{1}{4} + \frac{1}{5} + \frac{1}{6}$ of 1 run, or $\frac{20}{60} + \frac{15}{60} + \frac{12}{60} + \frac{10}{60} = \frac{57}{60}$ of 1 run; not quite so large as 1 run, but exactly $60 \div 57 = 1.05$ run.

## No. 96.—Linen and Jute.

2½ yards = 1 thread, or round of the linen reel.
300 " = 120 threads = 1 cut.
600 " = 240 " = 2 cuts = 1 heer.
1,800 " = 720 " = 6 " = 3 " = 1 slip.
3,600 " = 1,440 " = 12 " = 6 " = 2 slips = 1 hank.
7,200 " = 2,880 " = 24 " = 12 " = 4 " 2 hanks = 1 hasp.
14,400 " = 5,760 " = 48 " = 24 " = 8 " 4 " = 2 hasps = 1 spindle.

The number of cuts in one pound is the number of linen yarn.

The number of yards of linen yarn that weigh 23.33 grains is the number of the yarn.

The numbers by which linen sewing threads are sold represent three threads of the number twisted together; that is, No. 35 standard thread has three strands of 35 yarn in it.

## No. 97.—Worsted.

1 yard = 1 thread, or round of the worsted reel.
80 " = 80 threads = 1 lea or knot.
560 " = 560 " = 7 leas or knots = 1 hank.

The number of hanks in one pound is the number of worsted yarn.

The number of a worsted yarn of a given length which equals in weight a cotton yarn of the same length is equal to the cotton number multiplied by 1.5. No. 60 cotton = No. 90 worsted.

The number of yards of worsted yarn that weigh 12.5 grains is the number of the yarn.

*Table for measuring Worsted Yarn by the weight in grains of twenty yards, or one-fourth of a knot.*

| Grains. | No. of Yarn. | Grains. | No. of Yarn. | Grains. | No. of Yarn. | Grains. | No. of Yarn. | Grains. | No. of Yarn. | Grains. | No. of Yarn. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 250. | 19 | 13.16 | 37 | 6.76 | 55 | 4.55 | 73 | 3.42 | 91 | 2.75 |
| 2 | 125. | 20 | 12.50 | 38 | 6.58 | 56 | 4.46 | 74 | 3.38 | 92 | 2.72 |
| 3 | 83.33 | 21 | 11.90 | 39 | 6.41 | 57 | 4.39 | 75 | 3.33 | 93 | 2.69 |
| 4 | 62.50 | 22 | 11.36 | 40 | 6.25 | 58 | 4.31 | 76 | 3.29 | 94 | 2.66 |
| 5 | 50. | 23 | 10.87 | 41 | 6.10 | 59 | 4.24 | 77 | 3.25 | 95 | 2.63 |
| 6 | 41.67 | 24 | 10.42 | 42 | 5.95 | 60 | 4.17 | 78 | 3.21 | 96 | 2.60 |
| 7 | 35.71 | 25 | 10. | 43 | 5.81 | 61 | 4.10 | 79 | 3.17 | 97 | 2.58 |
| 8 | 31 25 | 26 | 9.62 | 44 | 5.68 | 62 | 4.03 | 80 | 3.12 | 98 | 2.55 |
| 9 | 27.78 | 27 | 9.26 | 45 | 5.56 | 63 | 3.97 | 81 | 3.09 | 99 | 2.52 |
| 10 | 25. | 28 | 8.93 | 46 | 5.43 | 64 | 3.91 | 82 | 3.05 | 100 | 2.50 |
| 11 | 22.73 | 29 | 8.62 | 47 | 5.32 | 65 | 3.85 | 83 | 3.01 | 105 | 2.38 |
| 12 | 20.83 | 30 | 8 33 | 48 | 5.21 | 66 | 3.79 | 84 | 2.98 | 110 | 2.27 |
| 13 | 19 23 | 31 | 8.06 | 49 | 5.10 | 67 | 3.73 | 85 | 2.94 | 115 | 2.17 |
| 14 | 17.86 | 32 | 7.81 | 50 | 5. | 68 | 3.68 | 86 | 2.91 | 120 | 2.08 |
| 15 | 16.67 | 33 | 7.58 | 51 | 4.90 | 69 | 3.62 | 87 | 2.87 | 125 | 2.00 |
| 16 | 15 62 | 34 | 7.35 | 52 | 4.81 | 70 | 3.57 | 88 | 2.84 | 150 | 1.67 |
| 17 | 14.71 | 35 | 7 14 | 53 | 4.72 | 71 | 3.52 | 89 | 2.81 | 175 | 1.43 |
| 18 | 13.89 | 36 | 6.94 | 54 | 4.63 | 72 | 3.47 | 90 | 2.78 | 200 | 1.25 |

## No. 98.—Cotton.

1½ yards = 1 thread, or round of the cotton reel.
120 " = 80 threads = 1 skein, ley or lea.
840 " = 560 " = 7 skeins = 1 hank.

The number of hanks in one pound is the number of cotton yarn.

The number of yards of cotton yarn that weigh 8.33 grains is the number of the yarn.

The numbers by which cotton sewing threads are sold represent three threads of the number twisted together; that is, No. 60 standard thread has three strands of No. 60 yarn in it. In a six-cord thread each of the three strands is make up of two threads twisted together. Six threads of No. 120 made six-cord No. 60.

The French system of numbering is based on the Metric system.

The metre = 39.37 inches, and is the standard of length. The Kilogram (2.2047) pounds) is the standard weight in numbering yarn, and the number of thousand metres in a Kilogram is the number of the yarn. No. 28 yarn would be No. 47.42 in France.

## No. 99.—Parallel Yarn Tables.

STANDARD.

| | *Length.* | *Weight* | | | *Count, or Number* |
|---|---|---|---|---|---|
| Woolen | 1,600 yds. | = 1 lb. | makes | 1 run. | 1 run. |
| " | 300 " | = 1 " | " | 1 cut. | 1 cut. |
| Worsted | 560 " | = 1 " | " | 1 hank. | No. 1. |
| Cotton | 840 " | = 1 " | " | 1 hank. | No. 1. |
| Linen | 300 " | = 1 " | " | 1 lea. | 1 lea. |

Yarns are graded by the number of runs, cuts, hanks, or leas required to make one pound; thus, 1,600 yards woolen yarn, weighing 1 pound, is known as 1 run yarn; if 3,200 yards are required to weigh 1 pound, the yarn is known as 2 run, etc. The same principle is used with other textile fabrics. Spun-silk yarns, however, have the same number of hanks per pound, and the same yardage in the 2 ply, 3-ply, etc., as in the single numbers. In cotton, wool, and worsted yarns the number indicating the doubling is put before the count number (2/40's). In spun-silk this method is reversed; thus, 40/2's.

| Woolen (Singles), 1,600 Yds. per Run. | | Woolen (Singles) by Cuts, and Linen (Singles) by Lea, 300 Yds. per Cut, or Lea. | | Worsted (Singles), 560 Yards per Hank. | | Cotton (Singles), and Spun-Silk, 840 Yards per Hank. | |
|---|---|---|---|---|---|---|---|
| Runs. | Yards per Lb. | Cuts, or Leas. | Yards per Lb. | No. | Yards per Lb. | No. | Yards per Lb. |
| $\frac{1}{4}$ | .400 | 1 | 300 | . . . | . . . . . | | |
| $\frac{3}{8}$ | .600 | 2 | 600 | 1 | 560 | | |
| $\frac{1}{2}$ | .800 | . . . | . . . . . | . . . | . . . . . | 1 | 840 |
| $\frac{5}{8}$ | 1,000 | 3 | 900 | 2 | 1,120 | . . | . . . . . |
| 1 | 1,600 | 5 | 1,500 | 3 | 1,680 | 2 | 1,680 |
| $1\frac{1}{4}$ | 2,000 | 7 | 2,100 | 4 | 2,240 | 3 | 2,520 |
| 2 | 3,200 | 10 | 3,000 | 5 | 2,800 | 4 | 3,360 |
| $2\frac{1}{2}$ | 4,000 | 13 | 3,900 | 7 | 3,920 | 5 | 4,200 |
| 3 | 4,800 | 17 | 5,100 | 9 | 5,040 | 6 | 5,040 |
| $3\frac{3}{4}$ | 6,000 | 20 | 6,000 | 11 | 6,160 | 7 | 5,880 |
| $4\frac{1}{2}$ | 7,200 | 23 | 6,900 | 12 | 6,720 | 8 | 6,720 |
| 5 | 8,000 | 27 | 8,100 | 14 | 7,840 | 10 | 8,400 |
| $5\frac{1}{2}$ | 8,800 | 30 | 9,000 | 16 | 8,960 | 11 | 9,240 |
| $6\frac{1}{4}$ | 10,000 | 33 | 9,900 | 18 | 10,080 | 12 | 10,080 |
| 7 | 11,200 | 37 | 11,100 | 20 | 11,200 | 13 | 10,920 |
| $7\frac{1}{2}$ | 12,000 | 40 | 12,000 | 21 | 11,760 | 14 | 11,760 |
| 8 | 12,800 | 43 | 12,900 | 23 | 12,880 | 16 | 13,440 |
| $8\frac{3}{4}$ | 14,000 | 47 | 14,100 | 25 | 14,000 | 17 | 14,280 |
| $9\frac{1}{2}$ | 15,200 | 50 | 15,000 | 27 | 15,120 | 18 | 15,120 |
| 10 | 16,000 | 53 | 15,900 | 29 | 16,240 | 19 | 15,960 |
| $10\frac{1}{2}$ | 16,800 | 57 | 17,100 | 30 | 16,800 | 20 | 16,800 |
| $11\frac{1}{4}$ | 18,000 | 60 | 18,000 | 32 | 17,920 | 21 | 17,640 |
| 12 | 19,200 | 63 | 18,900 | 34 | 19,040 | 23 | 19,320 |
| $12\frac{1}{2}$ | 20,000 | 67 | 20,100 | 36 | 20,160 | 24 | 20,160 |
| 14 | 22,400 | 74 | 22,200 | 40 | 22,400 | 26 | 21,840 |
| 15 | 24,000 | 80 | 24,000 | 42 | 23,520 | 28 | 23,520 |
| 16 | 25,600 | 86 | 25,800 | 46 | 25,760 | 30 | 25,200 |
| 18 | 28,800 | 94 | 28,200 | 50 | 28,000 | 34 | 28,560 |
| 19 | 30,400 | 100 | 30,000 | 54 | 30,240 | 36 | 30,240 |
| 20 | 32,000 | 106 | 31,800 | 58 | 32,480 | 38 | 31,920 |
| 21 | 33,600 | 114 | 34,200 | 60 | 33,600 | 40 | 33,600 |

## No. 100. Average Number of Scales to the Linear Inch in Different Woods.

JOHN GORDON GRAY.

| | | |
|---|---|---|
| East India Wool | 1,000 | scales to linear inch. |
| China wool | 1,200 | " " |
| Domestic wool | 1,400 | " " |
| Leicester wool | 1,400 | " " |
| Southdown wool | 1,500 | " " |
| Merino wool | 2,000 | " " |
| Saxony wool | 2,200 | " " |

## No. 101. Average Size of Wool Fibres.

JOHN GORDON GRAY.

| | | |
|---|---|---|
| East India wool | 1–700 | of an inch |
| China wool | 1–750 | " " |
| Domestic wool | 1–1100 | " " |
| Leicester wool | 1–300 | " " |
| Southdown wool | 1–1250 | " " |
| Merino wool | 1–1800 | " " |
| Saxony wool | 1–2000 | " " |
| Calf-hair | 1–1800 | " " |
| China grass | 1–1100 | " " |
| English flax | 1–1800 | " " |

## No. 102. Avoirdupois Weight.

| *Grains.* | | *Drachms.* | | *Ounces.* | | *Pounds.* | | *Ton.* | | *Grammes.* | | *Kilos.* |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 27.34 | = | 1 | | | | | | | = | 1.77184 | | |
| 437.5 | = | 16 | = | 1 | | | | | = | 28.34954 | | |
| 7000.0 | = | 256 | = | 16 | = | 1 | | | = | 453.59265 | | |
| | | | | | | 2.2047 | | | | | = | 1.00 |
| | | | | | | 2000 | = | 1 | | | = | 907.18 |

### Long Measure.

| *Inches.* | | *Feet.* | | *Yards.* | | *Metres.* |
|---|---|---|---|---|---|---|
| 12 | = | 1 | | | = | .3048 |
| 36 | = | 3 | = | 1 | = | .9144 |
| | | | | 1.0919 | = | 1. |

## No. 103.—Shrinkage Tables.

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 10 | 11 | 12 | 13 | 14 | | 10 | 11 | 12 | 13 | 14 |
| 12 | .13¼ | .13½ | .13½ | .13¾ | .14 | 42 | .46½ | .47 | .47¾ | .48¼ | .48¾ |
| 13 | .14½ | .14½ | .14¾ | .15 | .15 | 43 | .47¾ | .48¼ | .48¾ | .49¼ | .50 |
| 14 | .15½ | .15¾ | .16 | .16 | .16¼ | 44 | .49 | .49½ | .50 | .50½ | .51 |
| 15 | .16¾ | .16¾ | .17 | .17¼ | .17½ | 45 | .50 | .50½ | .51 | .51¾ | .52¼ |
| 16 | .17¾ | .18 | .18¼ | .18½ | .18½ | 46 | .51 | .51¾ | .52¼ | .52¾ | .53½ |
| 17 | .19 | .19 | .19¼ | .19½ | .19¾ | 47 | .52¼ | .52¾ | .53½ | .54 | .54¾ |
| 18 | .20 | .20¼ | .20½ | .20¾ | .21 | 48 | .53¼ | .54 | .54½ | .55¼ | .55¾ |
| 19 | .21 | .21¼ | .21½ | .21¾ | .22 | 49 | .54½ | .55 | .55¾ | .56¼ | .57 |
| 20 | .22¼ | .22½ | .22¾ | .23 | .23¼ | 50 | .55½ | .56¼ | .56¾ | .57½ | .58 |
| 21 | .23¼ | .23½ | .23¾ | .24 | .24½ | 51 | .56½ | .57¼ | .58 | .58½ | .59¼ |
| 22 | .24½ | .24¾ | .25 | .25¼ | .25½ | 52 | .57¾ | .58½ | .59 | .59¾ | .60½ |
| 23 | .25½ | .25¾ | .26 | .26½ | .26¾ | 53 | .59 | .59½ | .60¼ | .61 | .61¾ |
| 24 | .26¾ | .27 | .27¼ | .27½ | .28 | 54 | .60 | .60¾ | .61¼ | .62 | .62¾ |
| 25 | .27¾ | .28 | .28½ | .28¾ | .29 | 55 | .61 | .61¾ | .62½ | .63¼ | .64 |
| 26 | .29 | .29¼ | .29½ | .29¾ | .30¼ | 56 | .62¼ | .63 | .63¾ | .64¼ | .65 |
| 27 | .30 | .30¼ | .30¾ | .31 | .31¼ | 57 | .63¼ | .64 | .64¾ | .65½ | .66¼ |
| 28 | .31 | .31½ | .32 | .32¼ | .32½ | 58 | .64½ | .65 | .66 | .66¾ | .67½ |
| 29 | .32¼ | .32½ | .33 | .33¼ | .33¾ | 59 | .65½ | .66¼ | .67 | .67¾ | .68½ |
| 30 | .33¼ | .33¾ | .34 | .34½ | .35 | 60 | .66½ | .67½ | .68 | .69 | .69¾ |
| 31 | .34½ | .34¾ | .35¼ | .35½ | .36 | 61 | .67¾ | .68½ | .69¼ | .70 | .71 |
| 32 | .35½ | .36 | .36¼ | .36¾ | .37¼ | 62 | .69 | .69¾ | .70½ | .71¼ | .72 |
| 33 | .36½ | .37 | .37½ | .38 | .38¼ | 63 | .70 | .70¾ | .71½ | .72½ | .73¼ |
| 34 | .37¾ | .38¼ | .38¾ | .39 | .39½ | 64 | .71 | .72 | .72¾ | .73½ | .74½ |
| 35 | .38¾ | .39¼ | .40 | .40¼ | .40¾ | 65 | .72¼ | .73 | .73¾ | .74¾ | .75½ |
| 36 | .40 | .40½ | .41 | .41½ | .42 | 66 | .73¼ | .74¼ | .75 | .76 | .76¾ |
| 37 | .41 | .41½ | .42 | .42½ | .43 | 67 | .74½ | .75¼ | .76 | .77 | .78 |
| 38 | .42¼ | .42¾ | .43¼ | .43¾ | .44¼ | 68 | .75½ | .76½ | .77¼ | .78¼ | .79 |
| 39 | .43¼ | .43¾ | .44¼ | .44¾ | .45¼ | 69 | .76¾ | .77½ | .78½ | .79¼ | .80¼ |
| 40 | .44½ | .45 | .45½ | .46 | .46½ | 70 | .77¾ | .78¾ | .79½ | .80½ | .81½ |
| 41 | .45½ | .46 | .46½ | .47 | .47½ | | | | | | |

The small figures denote ¼, ½, and ¾.

## Shrinkage Tables, — *continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 15 | 16 | 17 | 18 | 19 |
| 12 | .14 | .14¼ | .14½ | .14¾ | .14¾ |
| 13 | .15¼ | .15½ | .15¾ | .16 | .16 |
| 14 | .16½ | .16¾ | .16¾ | .17 | .17¼ |
| 15 | .17¾ | .17¾ | .18 | .18¼ | .18½ |
| 16 | .18¾ | .19 | .19¼ | .19½ | .19¾ |
| 17 | .20 | .20¼ | .20½ | .20¾ | .21 |
| 18 | .21¼ | .21½ | .21¾ | .22 | .22¼ |
| 19 | .22¼ | .22½ | .23 | .23¼ | .23½ |
| 20 | .23½ | .23¾ | .24 | .24½ | .24¾ |
| 21 | .24¾ | .25 | .25¼ | .25½ | .26 |
| 22 | .25¾ | .26 | .26½ | .26¾ | .27 |
| 23 | .27 | .27¼ | .27¾ | .28 | .28½ |
| 24 | .28¼ | .28½ | .29 | .29¼ | .29½ |
| 25 | .29½ | .29¾ | .30 | .30½ | .30¾ |
| 26 | .30½ | .31 | .31¼ | .31¾ | .32 |
| 27 | .31¾ | .32 | .32½ | .33 | .33¼ |
| 28 | .33 | .33¼ | .33¾ | .34 | .34½ |
| 29 | .34 | .34½ | .35 | .35½ | .35¾ |
| 30 | .35¼ | .35¾ | .36 | .36½ | .37 |
| 31 | .36½ | .37 | .37¼ | .37¾ | .38¼ |
| 32 | .37½ | .38 | .38½ | .39 | .39½ |
| 33 | .38¾ | .39¼ | .39¾ | .40¼ | .40¾ |
| 34 | .40 | .40½ | .41 | .41½ | .42 |
| 35 | .41¼ | .41½ | .42 | .42½ | .43¼ |
| 36 | .42½ | .43 | .43½ | .44 | .44½ |
| 37 | .43½ | .44 | .44½ | .45 | .45¾ |
| 38 | .44¾ | .45¼ | .45¾ | .46¼ | .47 |
| 39 | .45¾ | .46¼ | .47 | .47½ | .48 |
| 40 | .47 | .47¾ | .48¼ | .49 | .49½ |
| 41 | .48¼ | .48¾ | .49¼ | .50 | .50½ |

| PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 15 | 16 | 17 | 18 | 19 |
| 42 | .49¼ | .50 | .50½ | .51¼ | .51¾ |
| 43 | .50½ | .51 | .51¾ | .52¼ | .53 |
| 44 | .51¾ | .52½ | .53 | .53½ | .54¼ |
| 45 | .53 | .53½ | .54¼ | .54¾ | .55½ |
| 46 | .54 | .54¾ | .55¼ | .56 | .56¾ |
| 47 | .55¼ | .56 | .56½ | .57¼ | .58 |
| 48 | .56½ | .57 | .57¾ | .58½ | .59¼ |
| 49 | .57½ | .58¼ | .59 | .59¾ | .60½ |
| 50 | .58¾ | .59½ | .60¼ | .61 | .61¾ |
| 51 | .60 | .60¾ | .61½ | .62¼ | .63 |
| 52 | .61¼ | .62 | .62¾ | .63½ | .64¼ |
| 53 | .62¼ | .63 | .63¾ | .64¾ | .65½ |
| 54 | .63½ | .64¼ | .65 | .66 | .66¾ |
| 55 | .64¾ | .65½ | .66¼ | .67 | .67¾ |
| 56 | .66 | .66¾ | .67½ | .68¼ | .69 |
| 57 | .67 | .67¾ | .68¾ | .69½ | .70¼ |
| 58 | .68¼ | .69 | .70 | .70¾ | .71½ |
| 59 | .69½ | .70¼ | .71 | .72 | .72¾ |
| 60 | .70½ | .71½ | .72¼ | .73¼ | .74 |
| 61 | .71¾ | .72½ | .73½ | .74½ | .75¼ |
| 62 | .73 | .73¾ | .74¾ | .75½ | .76½ |
| 63 | .74 | .75 | .76 | .76¾ | .77¾ |
| 64 | .75¼ | .76¼ | .77 | .78 | .79 |
| 65 | .76½ | .77¼ | .78¼ | .79¼ | .80¼ |
| 66 | .77¾ | .78½ | .79½ | .80½ | .81½ |
| 67 | .78¾ | .79¾ | .80¾ | .81¾ | .82¾ |
| 68 | .80 | .81 | .82 | .83 | .84 |
| 69 | .81¼ | .82 | .83 | .84¼ | .85¼ |
| 70 | .82¼ | .83¼ | .84¼ | .85¼ | .86¼ |

The small figures denote ¼, ½, and ¾.

## Shrinkage Tables, — *continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 20 | 21 | 22 | 23 | 24 | | 20 | 21 | 22 | 23 | 24 |
| 12 | .15 | .15¼ | .15½ | .15½ | .15¾ | 42 | .52½ | .53¼ | .53¾ | .54½ | .55¼ |
| 13 | .16¼ | .16½ | .16¾ | .17 | .17 | 43 | .53¾ | .54½ | .55 | .55¾ | .56½ |
| 14 | .17½ | .17¾ | .18 | .18¼ | .18½ | 44 | .55 | .55¾ | .56½ | .57¼ | .57¾ |
| 15 | .18¾ | .19 | .19¼ | .19½ | .19¾ | 45 | .56¼ | .57 | .57¾ | .58½ | .59¼ |
| 16 | .20 | .20¼ | .20½ | .20¾ | .21 | 46 | .57½ | .58¼ | .59 | .59¾ | .60½ |
| 17 | .21¼ | .21½ | .21¾ | .22 | .22¼ | 47 | .58¾ | .59½ | .60¼ | .61 | .61¾ |
| 18 | .22½ | .22¾ | .23 | .23½ | .23¾ | 48 | .60 | .60¾ | .61½ | .62¼ | .63¼ |
| 19 | .23¾ | .24 | .24¼ | .24¾ | .25 | 49 | .61¼ | .62 | .62¾ | .63½ | .64½ |
| 20 | .25 | .25¼ | .25½ | .26 | .26¼ | 50 | .62½ | .63¼ | .64 | .65 | .65¾ |
| 21 | .26¼ | .26¾ | .27 | .27¼ | .27½ | 51 | .63¾ | .64½ | .65¼ | .66¼ | .67 |
| 22 | .27½ | .27¾ | .28 | .28½ | .29 | 52 | .65 | .65¾ | .66¾ | .67½ | .68 |
| 23 | .28¾ | .29 | .29½ | .30 | .30¼ | 53 | .66¼ | .67 | .68 | .68¾ | .69¾ |
| 24 | .30 | .30½ | .30¾ | .31 | .31½ | 54 | .67½ | .68¼ | .69¼ | .70¼ | .71 |
| 25 | .31¼ | .31¾ | .32 | .32½ | .33 | 55 | .68¾ | .69½ | .70½ | .71½ | .72½ |
| 26 | .32½ | .33 | .33¼ | .33¾ | .34 | 56 | .70 | .71 | .71¾ | .72¾ | .73¾ |
| 27 | .33¾ | .34 | .34½ | .35 | .35½ | 57 | .71¼ | .72¼ | .73¼ | .74 | .75 |
| 28 | .35 | .35½ | .36 | .36¼ | .36¾ | 58 | .72½ | .73¼ | .74½ | .75 | .76¼ |
| 29 | .36¼ | .36¾ | .37 | .37¾ | .38¼ | 59 | .73¾ | .74¾ | .75¾ | .76¼ | .77¾ |
| 30 | .37½ | .38 | .38½ | .39 | .39¾ | 60 | .75 | .76 | .77 | .78 | .79 |
| 31 | .38¾ | .39¼ | .39¾ | .40¼ | .40¾ | 61 | .76¼ | .77¼ | .78¼ | .79¼ | .80¼ |
| 32 | .40 | .40½ | .41 | .41½ | .42¼ | 62 | .77½ | .78½ | .79½ | .80½ | .81½ |
| 33 | .41¼ | .41¾ | .42¼ | .42¾ | .43½ | 63 | .78¾ | .79¾ | .80¾ | .81¾ | .83 |
| 34 | .42½ | .43 | .43½ | .44¼ | .44¾ | 64 | .80 | .81 | .82 | .83 | .84¼ |
| 35 | .43¾ | .44¼ | .44¾ | .45½ | .46 | 65 | .81¼ | .82¼ | .83¼ | .84½ | .85½ |
| 36 | .45 | .45½ | .46¼ | .46¾ | .47¼ | 66 | .82½ | .83½ | .84½ | .85¾ | .86¾ |
| 37 | .46¼ | .46¾ | .47½ | .48 | .48¾ | 67 | .83¾ | .84¾ | .85¾ | .87 | .88¼ |
| 38 | .47½ | .48 | .48¾ | .49¼ | .50 | 68 | .85 | .86 | .87¼ | .88¼ | .89½ |
| 39 | .48¾ | .49¼ | .50 | .50½ | .51¼ | 69 | .86¼ | .87¼ | .88½ | .89½ | .90¾ |
| 40 | .50 | .50½ | .51¼ | .52 | .52¾ | 70 | .87½ | .88½ | .89¾ | .91 | .92 |
| 41 | .51¼ | .52 | .52½ | .53¼ | .54 | | | | | | |

The small figures denote ¼, ½, and ¾.

## Shrinkage Tables,—*continued.*

SHOWING COST OF SCOURED WOOL.

| Price. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 25 | 26 | 27 | 28 | 29 |
| 12 | .16 | .16¼ | .16½ | .16¾ | .17 |
| 13 | .17¼ | .17½ | .17¾ | .18 | .18¼ |
| 14 | .18¾ | .19 | .19¼ | .19½ | .19¾ |
| 15 | .20 | .20¼ | .20½ | .20¾ | .21¼ |
| 16 | .21¼ | .21½ | .22 | .22¼ | .22½ |
| 17 | .22¾ | .23 | .23¼ | .23½ | .24 |
| 18 | .24 | .24¼ | .24¾ | .25 | .25¼ |
| 19 | .25¼ | .25½ | .26 | .26½ | .26¾ |
| 20 | .26¾ | .27 | .27¼ | .27¾ | .28 |
| 21 | .28 | .28¼ | .28¾ | .29 | .29½ |
| 22 | .29¼ | .29¾ | .30 | .30½ | .31 |
| 23 | .30½ | .31 | .31½ | .32 | .32¼ |
| 24 | .32 | .32½ | .32¾ | .33 | .33¾ |
| 25 | .33¼ | .33¾ | .34¼ | .34¾ | .35¼ |
| 26 | .34½ | .35 | .35½ | .36 | .36½ |
| 27 | .36 | .36½ | .37 | .37½ | .38 |
| 28 | .37¼ | .37¾ | .38¼ | .38¾ | .39½ |
| 29 | .38¾ | .39¼ | .39¾ | .40¼ | .40¾ |
| 30 | .40 | .40½ | .41 | .41¾ | .42¼ |
| 31 | .41¼ | .41¾ | .42½ | .43 | .43½ |
| 32 | .42¾ | .43¼ | .43¾ | .44½ | .45 |
| 33 | .44 | .44¾ | .45¼ | .45¾ | .46½ |
| 34 | .45¼ | .46 | .46½ | .47¼ | .47¾ |
| 35 | .46½ | .47¼ | .47¾ | .48¾ | .49¼ |
| 36 | .48 | .48¾ | .49¼ | .50 | .50¾ |
| 37 | .49¼ | .50 | .50¾ | .51¼ | .52 |
| 38 | .50¾ | .51¼ | .52 | .52¾ | .53½ |
| 39 | .52 | .52¾ | .53½ | .54¼ | .55 |
| 40 | .53¼ | .54 | .54¾ | .55½ | .56¼ |
| 41 | .54¾ | .55½ | .56¼ | .57 | .57¾ |

| Price. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 25 | 26 | 27 | 28 | 29 |
| 42 | .56 | .56¾ | .57½ | .58¼ | .59 |
| 43 | .57¼ | .58 | .58¾ | .59¾ | .60½ |
| 44 | .58¾ | .59½ | .60¼ | .61 | .62 |
| 45 | .60 | .60¾ | .61¾ | .62½ | .63¼ |
| 46 | .61¼ | .62¼ | .63 | .63¾ | .64¾ |
| 47 | .62¾ | .63½ | .64½ | .65¼ | .66¼ |
| 48 | .64 | .64¾ | .65¾ | .66¾ | .67½ |
| 49 | .65¼ | .66¼ | .67 | .68 | .69 |
| 50 | .66¾ | .67½ | .68½ | .69½ | .70½ |
| 51 | .68 | .69 | .70 | .70¾ | .71¾ |
| 52 | .69¼ | .70¼ | .71 | .72¼ | .73¼ |
| 53 | .70¾ | .71½ | .72½ | .73½ | .74¾ |
| 54 | .72 | .73 | .74 | .75 | .76 |
| 55 | .73¼ | .74¼ | .75¼ | .76½ | .77½ |
| 56 | .74¾ | .75¾ | .76¾ | .77¾ | .78¾ |
| 57 | .76 | .77 | .78 | .79¼ | .80¼ |
| 58 | .77¼ | .78½ | .79½ | .80½ | .81¾ |
| 59 | .78¾ | .79¾ | .80¾ | .82 | .83 |
| 60 | .80 | .81 | .82¼ | .83¼ | .84½ |
| 61 | .81¼ | .82½ | .83½ | .84¾ | .86 |
| 62 | .82¾ | .84 | .85 | .86 | .87¼ |
| 63 | .84 | .85¼ | .86¼ | .87½ | .88¾ |
| 64 | .85¼ | .86½ | .87¾ | .89 | .90¼ |
| 65 | .86¾ | .87¾ | .89 | .90¼ | .91½ |
| 66 | .88 | .89¼ | .90½ | .91½ | .93 |
| 67 | .89¼ | .90½ | .91¾ | .93 | .94¼ |
| 68 | .90¾ | .92 | .93¼ | .94½ | .95¾ |
| 69 | .92 | .93¼ | .94¾ | .95¾ | .97¼ |
| 70 | .93¼ | .94½ | .96 | .97¼ | .98½ |

The small figures denote ¼, ½, and ¾.

**Shrinkage Tables,** — *continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 30 | 31 | 32 | 33 | 34 | | 30 | 31 | 32 | 33 | 34 |
| 12 | .17¹ | .17² | .17³ | .18 | .18¹ | 42 | .60 | .60³ | .61³ | .62³ | .63³ |
| 13 | .18² | .18³ | .19 | .19² | .19³ | 43 | .61² | .62² | .63 | .64¹ | .65 |
| 14 | .20 | .20¹ | .20² | .21 | .21¹ | 44 | .62³ | .63³ | .64² | .65³ | .66² |
| 15 | .21² | .21³ | .22 | .22² | .22³ | 45 | .64¹ | .65¹ | .66¹ | .67 | .68¹ |
| 16 | .22³ | .23¹ | .23² | .24 | .24¹ | 46 | .65³ | .66³ | .67³ | .68³ | .69³ |
| 17 | .24¹ | .24³ | .25 | .25¹ | .25³ | 47 | .67 | .68 | .69 | .70 | .71¹ |
| 18 | .25³ | .26 | .26² | .26³ | .27¹ | 48 | .68² | .69² | .70² | .71³ | .72³ |
| 19 | .27¹ | .27² | .28 | .28¹ | .28³ | 49 | .70 | .71 | .72 | .73¹ | .74¹ |
| 20 | .28² | .29 | .29² | .29³ | .30¹ | 50 | .71² | .72² | .73² | .74³ | .75³ |
| 21 | .30 | .30² | .31 | .31¹ | .32 | 51 | .73 | .73² | .75 | .76 | .77¹ |
| 22 | .31² | .32 | .32¹ | .32³ | .33¹ | 52 | .74¹ | .75¹ | .76² | .77³ | .78³ |
| 23 | .33 | .33¹ | .33³ | .34¹ | .34³ | 53 | .75³ | .76³ | .78 | .79 | .80¹ |
| 24 | .34¹ | .34³ | .35 | .35³ | .36¹ | 54 | .77 | .78¹ | .79¹ | .80² | .81³ |
| 25 | .35³ | .36¹ | .36³ | .37¹ | .37³ | 55 | .78² | .79³ | .81 | .82 | .83¹ |
| 26 | .37 | .37³ | .38¹ | .38³ | .39² | 56 | .80 | .81 | .82¹ | .83² | .84³ |
| 27 | .38² | .39 | .39³ | .40¹ | .41 | 57 | .81² | .82² | .83³ | .85 | .86¹ |
| 28 | .40 | .40² | .41¹ | .41³ | .42² | 58 | .83 | .84 | .85¹ | .86² | .87³ |
| 29 | .41² | .42 | .42³ | .43¹ | .44 | 59 | .84¹ | .85² | .86³ | .88 | .89² |
| 30 | .43 | .43¹ | .44 | .44³ | .45² | 60 | .85³ | .87 | .88² | .89² | .91 |
| 31 | .44¹ | .45 | .45² | .46¹ | .47 | 61 | .87 | .88² | .89³ | .91 | .92² |
| 32 | .45³ | .46² | .47 | .47³ | .48² | 62 | .88² | .90 | .91 | .92² | .94 |
| 33 | .47 | .48 | .48³ | .49¹ | .50 | 63 | .90 | .91¹ | .92³ | .94 | .95² |
| 34 | .48² | .49¹ | .50 | .50³ | .51² | 64 | .91² | .92³ | .94 | .95² | .97 |
| 35 | .50 | .50² | .51² | .52¹ | .53 | 65 | .93 | .94¹ | .95¹ | .97 | .98² |
| 36 | .51² | .52 | .53 | .53³ | .54² | 66 | .94¹ | .95³ | .97 | .98² | 1.00 |
| 37 | .52³ | .53² | .54² | .55¹ | .56 | 67 | .95³ | .97 | .98² | 1.00 | 1.01² |
| 38 | .54¹ | .55 | .56 | .56³ | .57² | 68 | .97 | .98² | 1.00 | 1.01² | 1.03 |
| 39 | .55² | .56² | .57¹ | .58¹ | .59 | 69 | .98² | 1.00 | 1.01² | 1.03 | 1.04² |
| 40 | .57 | .58 | .58³ | .59³ | .60² | 70 | 1.00 | 1.01² | 1.03 | 1.04² | 1.06 |
| 41 | .58² | .59² | .60¹ | .61¹ | .62 | | | | | | |

The small figures denote $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$.

## Shrinkage Tables, — *continued.*

SHOWING COST OF SCOURED WOOL.

| Price. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 35 | 36 | 37 | 38 | 39 |
| 12 | .18² | .18³ | .19 | .19¹ | .19³ |
| 13 | .20 | .20¹ | .20³ | .21 | .21¹ |
| 14 | .21² | .22 | .22¹ | .22² | .23 |
| 15 | .23 | .23² | .23³ | .24¹ | .24² |
| 16 | .24² | .25 | .25² | .25³ | .26¹ |
| 17 | .26¹ | .26² | .27 | .27² | .27³ |
| 18 | .27³ | .28 | .28² | .29 | .29² |
| 19 | .29¹ | .29³ | .30¹ | .30³ | .31 |
| 20 | .31 | .31¹ | .31³ | .32¹ | .32³ |
| 21 | .32² | .32³ | .33¹ | .34 | .34² |
| 22 | .34 | .34² | .35 | .35² | .36 |
| 23 | .35² | .36 | .36¹ | .37 | .37³ |
| 24 | .37 | .37² | .38 | .38³ | .39¹ |
| 25 | .38² | .39 | .39³ | .40¹ | .41 |
| 26 | .40 | .40² | .41¹ | .42 | .42² |
| 27 | .41² | .42¹ | .43 | .43² | .44¹ |
| 28 | .43 | .43³ | .44² | .45 | .46 |
| 29 | .44² | .45¹ | .46 | .46³ | .47² |
| 30 | .46 | .47 | .47² | .48² | .49 |
| 31 | .47³ | .48² | .49¹ | .50 | .51 |
| 32 | .49¹ | .50 | .50³ | .51² | .52² |
| 33 | .50³ | .51² | .52¹ | .53¹ | .54 |
| 34 | .52¹ | .53 | .54 | .54³ | .55³ |
| 35 | .53³ | .54² | .55² | .56¹ | .57¹ |
| 36 | .55² | .56¹ | .57 | .58 | .59 |
| 37 | .57 | .57³ | .58³ | .59³ | .60³ |
| 38 | .58² | .59¹ | .60¹ | .61¹ | .62¹ |
| 39 | .60 | .61 | .62 | .63 | .64 |
| 40 | .61² | .62² | .63² | .64² | .65² |
| 41 | .63 | .64 | .65 | .66 | .67¹ |

| Price. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 35 | 36 | 37 | 38 | 39 |
| 42 | .64² | .65² | .66³ | .67³ | .68³ |
| 43 | .66 | .67¹ | .68¹ | .69¹ | .70² |
| 44 | .67³ | .68³ | .69³ | .71 | .72 |
| 45 | .69¹ | .70¹ | .71² | .72³ | .73³ |
| 46 | .70³ | .72 | .73 | .74¹ | .75² |
| 47 | .72¹ | .73² | .74² | .75³ | .77 |
| 48 | .73³ | .75 | .76 | .77² | .78³ |
| 49 | .75² | .76² | .77¹ | .79 | .80¹ |
| 50 | .77 | .78 | .79¹ | .80³ | .82 |
| 51 | .78² | .79³ | .81 | .82¹ | .83² |
| 52 | .80 | .81¹ | .82² | .83³ | .85¹ |
| 53 | .81² | .82³ | .84 | .85² | .87 |
| 54 | .83 | .84² | .85³ | .87 | .88³ |
| 55 | .84² | .86 | .87¹ | .88³ | .90¹ |
| 56 | .86 | .87² | .89 | .90¹ | .91³ |
| 57 | .87³ | .89 | .90² | .92 | .93² |
| 58 | .89¹ | .90¹ | .92 | .93² | .95 |
| 59 | .90³ | .92¹ | .93² | .95 | .96³ |
| 60 | .92¹ | .93³ | .95¹ | .96³ | .98¹ |
| 61 | .93³ | .95¹ | .96³ | .98² | 1.00 |
| 62 | .95² | .97 | .98² | 1.00 | 1.01³ |
| 63 | .97 | .98² | 1.00 | 1.01² | 1.03¹ |
| 64 | .98² | 1.00 | 1.01² | 1.03¹ | 1.05 |
| 65 | 1.00 | 1.01² | 1.03 | 1.04³ | 1.06³ |
| 66 | 1.01² | 1.03 | 1.04³ | 1.06² | 1.08¹ |
| 67 | 1.03 | 1.04³ | 1.06¹ | 1.08 | 1.09³ |
| 68 | 1.04² | 1.06¹ | 1.08 | 1.09³ | 1.11² |
| 69 | 1.06¹ | 1.07³ | 1.09¹ | 1.11¹ | 1.13 |
| 70 | 1.07³ | 1.09 | 1.11 | 1.13 | 1.14³ |

The small figures denote $\frac{1}{4}$. $\frac{1}{2}$, and $\frac{3}{4}$.

## Shrinkage Tables,—*continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 40 | 41 | 42 | 43 | 44 | | 40 | 41 | 42 | 43 | 44 |
| 12 | .20 | .20¼ | .20¾ | .21 | .21½ | 42 | .70 | .71¼ | .72½ | .73¾ | .75 |
| 13 | .21¾ | .22 | .22½ | .22¾ | .23¼ | 43 | .71½ | .72¾ | .74 | .75½ | .76½ |
| 14 | .23¼ | .23¾ | .24¼ | .24½ | .25 | 44 | .73¼ | .74½ | .75¾ | .77¼ | .78½ |
| 15 | .25 | .25½ | .25¾ | .26¼ | .26¾ | 45 | .75 | .76¼ | .77½ | .79 | .80 |
| 16 | .26¾ | .27 | .27½ | .28 | .28½ | 46 | .76¾ | .78 | .79¼ | .80¾ | .82 |
| 17 | .28¼ | .28¾ | .29¼ | .29¾ | .30¼ | 47 | .78¼ | .79¾ | .81 | .82½ | .84 |
| 18 | .30 | .30½ | .31 | .31½ | .32¼ | 48 | .80 | .81½ | .82¾ | .84 | .85¾ |
| 19 | .31¾ | .32¼ | .32¾ | .33¼ | .34 | 49 | .81½ | .83 | .84½ | .86 | .87¾ |
| 20 | .33¼ | .33¾ | .34½ | .35 | .35¾ | 50 | .83¼ | .84¾ | .86 | .87¾ | .89¼ |
| 21 | .35 | .35½ | .36 | .36¾ | .37½ | 51 | .85 | .86½ | .88 | .89½ | .91 |
| 22 | .36½ | .37¼ | .38 | .38½ | .39¼ | 52 | .86½ | .88 | .89½ | .91 | .92¾ |
| 23 | .38¼ | .39 | .39½ | .40 | .41 | 53 | .88¼ | .90 | .91¼ | .93 | .94½ |
| 24 | .40 | .40¾ | .41¼ | .42 | .42¾ | 54 | .90 | .91½ | .93 | .94¾ | .96½ |
| 25 | .41¾ | .42¼ | .43 | .43¾ | .44½ | 55 | .91½ | .93¼ | .94¾ | .96½ | .98 |
| 26 | .43¼ | .44 | .45 | .45¾ | .46½ | 56 | .93¼ | .94¾ | .96½ | .98¼ | 1.00 |
| 27 | .45 | .45¾ | .46½ | .47¼ | .48¼ | 57 | .95 | .96½ | .98¼ | 1.00 | 1.02 |
| 28 | .46½ | .47½ | .48¼ | .49 | .50 | 58 | .96½ | .98¼ | 1.00 | 1.01¾ | 1.03½ |
| 29 | .48¼ | .49 | .50 | .51 | .51¾ | 59 | .98¼ | 1.00 | 1.01¾ | 1.03½ | 1.05¼ |
| 30 | .50 | .50¾ | .51¾ | .52½ | .53½ | 60 | 1.00 | 1.01¾ | 1.03½ | 1.05¼ | 1.07 |
| 31 | .51½ | .52½ | .53½ | .54½ | .55¼ | 61 | 1.01½ | 1.03½ | 1.05 | 1.07 | 1.09 |
| 32 | .53¼ | .54¼ | .55 | .56 | .57 | 62 | 1.03¼ | 1.05 | 1.07 | 1.08¾ | 1.10¾ |
| 33 | .55 | .56 | .57 | .58 | .59 | 63 | 1.05 | 1.06¾ | 1.08¾ | 1.10½ | 1.12½ |
| 34 | .56½ | .57½ | .58½ | .59½ | .60¾ | 64 | 1.06½ | 1.08½ | 1.10¼ | 1.12¼ | 1.14¼ |
| 35 | .58¼ | .59¼ | .60¼ | .61½ | .62½ | 65 | 1.08¼ | 1.10 | 1.12 | 1.14 | 1.16 |
| 36 | .60 | .61 | .62 | .63 | .64¼ | 66 | 1.10 | 1.11¾ | 1.13¾ | 1.15¾ | 1.17¾ |
| 37 | .61½ | .62¾ | .63¾ | .65 | .66 | 67 | 1.11½ | 1.13½ | 1.15½ | 1.17½ | 1.19¾ |
| 38 | .63¼ | .64½ | .65½ | .66¾ | .68 | 68 | 1.13¼ | 1.15¼ | 1.17¼ | 1.19¼ | 1.21½ |
| 39 | .65 | .66 | .67¼ | .68½ | .69½ | 69 | 1.15 | 1.17 | 1.19 | 1.21 | 1.23¼ |
| 40 | .66½ | .67¾ | .69 | .70 | .71½ | 70 | 1.16½ | 1.18½ | 1.20¾ | 1.22¾ | 1.25 |
| 41 | .68¼ | .69½ | .70¾ | .71¾ | .73¼ | | | | | | |

The small figures denote ¼, ½, and ¾.

**Shrinkage Tables,** — *continued.*
SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 45 | 46 | 47 | 48 | 49 | | 45 | 46 | 47 | 48 | 49 |
| 12 | .21¾ | .22¼ | .22¾ | .23 | .23½ | 42 | .76¼ | .77¾ | .79¼ | .80¾ | .82¼ |
| 13 | .23¾ | .24 | .24½ | .25 | .25½ | 43 | .78¼ | .79½ | .81 | .82½ | .84¼ |
| 14 | .25½ | .26 | .26½ | .27 | .27½ | 44 | .80 | .81½ | .83 | .84½ | .86¼ |
| 15 | .27¼ | .27¾ | .28¼ | .28¾ | .29½ | 45 | .81¾ | .83¼ | .85 | .86½ | .88 |
| 16 | .29 | .29½ | .30¼ | .30¾ | .31¼ | 46 | .83½ | .85 | .86¾ | .88½ | .90 |
| 17 | .31 | .31½ | .32 | .32¾ | .33¼ | 47 | .85½ | .87 | .88½ | .90 | .92 |
| 18 | .32¾ | .33¼ | .34 | .34½ | .35¼ | 48 | .87 | .88¾ | .90½ | .92 | .94 |
| 19 | .34½ | .35¼ | .35¾ | .36½ | .37¼ | 49 | 89 | .90½ | .92½ | .94 | .96 |
| 20 | .36¼ | .37 | .37¾ | .38¼ | .39¼ | 50 | .90¾ | .92½ | .94¼ | .96 | .98 |
| 21 | .38¼ | .38¾ | .39½ | .40¼ | .41 | 51 | .92¾ | .94½ | .96 | .98 | 1.00 |
| 22 | .40 | .40¾ | .41½ | .42¼ | .43 | 52 | .94½ | .96¼ | .98 | 1.00 | 1.02 |
| 23 | .41¾ | .42½ | .43½ | .44¼ | .45 | 53 | .96¼ | .98 | 1.00 | 1.02 | 1.04 |
| 24 | .43¾ | .44½ | .45¼ | .46 | .47 | 54 | .98 | 1.00 | 1.02 | 1.04 | 1.06 |
| 25 | .45¼ | .46¼ | .47 | .48 | .49 | 55 | 1.00 | 1.02 | 1.04 | 1.06 | 1.08 |
| 26 | .47¼ | .48 | .49 | .50 | .51 | 56 | 1.02 | 1.04 | 1.06 | 1.08 | 1.10 |
| 27 | .49 | .50 | .51 | .52 | .52¾ | 57 | 1.03½ | 1.05½ | 1.07½ | 1.09½ | 1.11¾ |
| 28 | .51 | .51¾ | .52¾ | .53¾ | .55 | 58 | 1.05½ | 1.07½ | 1.09½ | 1.11½ | 1.13¾ |
| 29 | .52¾ | .53½ | .54¾ | .56 | .56¾ | 59 | 1.07¼ | 1.09¼ | 1.11¼ | 1.13½ | 1.15½ |
| 30 | .54½ | .55½ | .56½ | .57½ | .58¾ | 60 | 1.09 | 1.11 | 1.13 | 1.15¼ | 1.17½ |
| 31 | .56¼ | .57¼ | .58½ | .59½ | .60½ | 61 | 1.11 | 1.13 | 1.15 | 1.17¼ | 1.19½ |
| 32 | .58 | .59 | .60 | .61¼ | .62½ | 62 | 1.12¾ | 1.14¾ | 1.17 | 1.19¼ | 1.21½ |
| 33 | .60 | .61 | .62¼ | .63½ | .64½ | 63 | 1.14¾ | 1.16¾ | 1.19 | 1.21 | 1.23½ |
| 34 | .61¾ | .63 | .64 | .65¼ | .66½ | 64 | 1.16¼ | 1.18½ | 1.20¾ | 1.23 | 1.25½ |
| 35 | .63½ | .64¾ | .66 | .67¼ | .68½ | 65 | 1.18 | 1.20¼ | 1.22½ | 1.25 | 1.27¼ |
| 36 | .65½ | .66½ | .68 | .69¼ | .70½ | 66 | 1.20 | 1.22¼ | 1.24½ | 1.27 | 1.29½ |
| 37 | .67¼ | .68¼ | .69¾ | .71 | .72½ | 67 | 1.21¾ | 1.24 | 1.26½ | 1.28¾ | 1.31¼ |
| 38 | .69 | .70 | .71½ | .73 | .74½ | 68 | 1.23½ | 1.25¾ | 1.28¼ | 1.30¾ | 1.33¼ |
| 39 | .70¾ | .72 | .73¼ | .75 | .76½ | 69 | 1.25½ | 1.27¾ | 1.30¼ | 1.32¾ | 1.35¼ |
| 40 | .72¾ | .74 | .75½ | .77 | .78½ | 70 | 1.27¼ | 1.29½ | 1.32 | 1.34½ | 1.37¼ |
| 41 | .74½ | .76 | .77¼ | .78¾ | .80¼ | | | | | | |

The small figures denote ¼, ½, and ¾.

**Shrinkage Tables,**—*continued.*
SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 50 | 51 | 52 | 53 | 54 | | 50 | 51 | 52 | 53 | 54 |
| 12 | .24 | .24² | .25 | .25² | .26 | 42 | .84 | .85³ | .87² | .89² | .91¹ |
| 13 | .26 | .26² | .27 | .27³ | .28¹ | 43 | .86 | .87³ | .89² | .91² | .93² |
| 14 | .28 | .28² | .29¹ | .29³ | .30² | 44 | .88 | .89³ | .91³ | .93³ | .95³ |
| 15 | .30 | .30² | .31¹ | .32 | .32² | 45 | .90 | .91³ | .93¹ | .95³ | .97³ |
| 16 | .32 | .32³ | .33¹ | .34 | .34³ | 46 | .92 | .93³ | .95³ | .98 | 1.00 |
| 17 | .34 | .34³ | .35² | .36¹ | .37 | 47 | .94 | .96 | .98 | 1.00 | 1.02¹ |
| 18 | .36 | .36³ | .37² | .38¹ | .39¹ | 48 | .96 | .98 | 1.00 | 1.02 | 1.04¹ |
| 19 | .38 | .38³ | .39² | .40² | .41¹ | 49 | .98 | 1.00 | 1.02 | 1.04¹ | 1.06² |
| 20 | .40 | .40³ | .41³ | .42² | .43² | 50 | 1.00 | 1.02 | 1.04¹ | 1.06² | 1.08³ |
| 21 | .42 | .43 | .43³ | .44³ | .45³ | 51 | 1.02 | 1.04 | 1.06¹ | 1.08² | 1.11 |
| 22 | .44 | .45 | .46 | .47 | .48 | 52 | 1.04 | 1.06 | 1.08¹ | 1.10² | 1.13 |
| 23 | .46 | .47 | .48 | .49 | .50 | 53 | 1.06 | 1.08 | 1.10² | 1.12³ | 1.15¹ |
| 24 | .48 | .49 | .50 | .51 | .52¹ | 54 | 1.08 | 1.10¹ | 1.12¹ | 1.15 | 1.17² |
| 25 | .50 | .51 | .52 | .53¹ | .54¹ | 55 | 1.10 | 1.12¹ | 1.14² | 1.17 | 1.19² |
| 26 | .52 | .53 | .54 | .55¹ | .56² | 56 | 1.12 | 1.14¹ | 1.16³ | 1.19¹ | 1.21³ |
| 27 | .54 | .55 | .56¹ | .57² | .59 | 57 | 1.14 | 1.16¹ | 1.18³ | 1.21¹ | 1.23³ |
| 28 | .56 | .57 | .58¹ | .59² | .60³ | 58 | 1.16 | 1.18² | 1.20³ | 1.23² | 1.26 |
| 29 | .58 | .59¹ | .60² | .61³ | .63 | 59 | 1.18 | 1.20² | 1.23 | 1.25² | 1.28¹ |
| 30 | .60 | .61¹ | .62² | .63³ | .65¹ | 60 | 1.20 | 1.22² | 1.25 | 1.28¹ | 1.30² |
| 31 | .62 | .63¹ | .64² | .66 | .67² | 61 | 1.22 | 1.24² | 1.27 | 1.29³ | 1.32² |
| 32 | .64 | .65¹ | .66³ | .68 | .69² | 62 | 1.24 | 1.26² | 1.29¹ | 1.32 | 1.34³ |
| 33 | .66 | .67¹ | .68³ | .70¹ | .71³ | 63 | 1.26 | 1.28² | 1.31¹ | 1.34 | 1.37 |
| 34 | .63 | .69² | .70³ | .72¹ | .74 | 64 | 1.28 | 1.30² | 1.33¹ | 1.36¹ | 1.39¹ |
| 35 | .70 | .71² | .73 | .74² | .76 | 65 | 1.30 | 1.32³ | 1.35² | 1.38¹ | 1.41¹ |
| 36 | .72 | .73² | .75 | .76¹ | .78¹ | 66 | 1.32 | 1.34³ | 1.37² | 1.40² | 1.43² |
| 37 | .74 | .75² | .77 | .78³ | .80² | 67 | 1.34 | 1.36³ | 1.39² | 1.42² | 1.45³ |
| 38 | .76 | .77² | .79¹ | .80³ | .82² | 68 | 1.36 | 1.38³ | 1.41³ | 1 44³ | 1.47³ |
| 39 | .78 | .79² | .81¹ | .83 | .84³ | 69 | 1.38 | 1.40³ | 1.43³ | 1.46³ | 1.50 |
| 40 | .80 | .81² | .83¹ | .85 | .87 | 70 | 1.40 | 1.42³ | 1.46 | 1.49 | 1.52¹ |
| 41 | .82 | .83³ | .85² | .87¹ | .89¹ | | | | | | |

The small figures denote ¼, ½, and ¾.

**Shrinkage Tables,**—*continued.*
SHOWING COST OF SCOURED WOOL.

| Price. | Per cent. of Shrinkage. | | | | | Price. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 55 | 56 | 57 | 58 | 59 | | 55 | 56 | 57 | 58 | 59 |
| 12 | .26¾ | .27¼ | .28 | .28½ | .29¼ | 42 | .93¼ | .95½ | .97½ | 1.00 | 1.02½ |
| 13 | .28¾ | .29½ | .30¼ | .31 | .31¾ | 43 | .95½ | .97¾ | 1.00 | 1.02½ | 1.04¾ |
| 14 | .31 | .31¾ | .32½ | .33¼ | .34¼ | 44 | .97¾ | 1.00 | 1.02¼ | 1.04¾ | 1.07¼ |
| 15 | .33¼ | .34 | .35 | .35¾ | .36½ | 45 | 1.00 | 1.02¼ | 1.04¾ | 1.07 | 1.09¾ |
| 16 | .35½ | .36¼ | .37¼ | .38 | .39 | 46 | 1.02¼ | 1.04½ | 1.07 | 1.09¾ | 1.12¼ |
| 17 | .37¾ | .38¾ | .39½ | .40½ | .41½ | 47 | 1.04½ | 1.06¾ | 1.09 | 1.12 | 1.14¾ |
| 18 | .40 | .41 | .41¾ | .42¾ | .44 | 48 | 1.06¾ | 1.09 | 1.11¾ | 1.14¼ | 1.17 |
| 19 | .42¼ | .43¼ | .44¼ | .45¼ | .46¼ | 49 | 1.08¾ | 1.11 | 1.14 | 1.16¾ | 1.19½ |
| 20 | .44½ | .45½ | .46½ | .47½ | .48¾ | 50 | 1.11 | 1.13½ | 1.16¼ | 1.19 | 1.22 |
| 21 | .46¾ | .47¾ | .49 | .50 | .51¼ | 51 | 1.13¼ | 1.16 | 1.18½ | 1.21¼ | 1.24½ |
| 22 | .49 | .50 | .51 | .52¼ | .53½ | 52 | 1.15½ | 1.18 | 1.21 | 1.23¾ | 1.26¾ |
| 23 | .51 | .52¼ | .53½ | .54¾ | .56 | 53 | 1.17¾ | 1.20½ | 1.23¼ | 1.26¼ | 1.29¼ |
| 24 | .53¼ | .54½ | .55¾ | .57 | .58½ | 54 | 1.20 | 1.22¾ | 1.25½ | 1.28½ | 1.31¾ |
| 25 | .55½ | .56¼ | .58 | .59½ | .61 | 55 | 1.22¼ | 1.25 | 1.28 | 1.31 | 1.34¼ |
| 26 | .57¾ | .59 | .60½ | .62 | .63½ | 56 | 1.24½ | 1.27¼ | 1.30¼ | 1.33¼ | 1.36½ |
| 27 | .60 | .61½ | .63 | .64¼ | .65¾ | 57 | 1.26¾ | 1.29½ | 1.32½ | 1.35¾ | 1.39 |
| 28 | .62¼ | .63½ | .65 | .66½ | .68¼ | 58 | 1.29 | 1.31¾ | 1.35 | 1.38 | 1.41½ |
| 29 | .64¼ | .66 | .67½ | .69 | .70¾ | 59 | 1.31 | 1.34 | 1.37¼ | 1.40¾ | 1.44 |
| 30 | .66½ | .68¼ | .69¾ | .71½ | .73¼ | 60 | 1.33¼ | 1.36¼ | 1.39½ | 1.42¾ | 1.46¼ |
| 31 | .68¾ | .70½ | .72 | .73¾ | .75½ | 61 | 1.35½ | 1.38¾ | 1.41¾ | 1.45¼ | 1.48¾ |
| 32 | .71 | .72¾ | .74½ | .76¼ | .78 | 62 | 1.37¾ | 1.41 | 1.44¼ | 1.47½ | 1.51¼ |
| 33 | .73¼ | .75 | .76¾ | .78½ | .80½ | 63 | 1.40 | 1.43¼ | 1.46½ | 1.50 | 1.53¾ |
| 34 | .75½ | .77¼ | .79 | .81 | .83 | 64 | 1.42¼ | 1.45½ | 1.48¾ | 1.52½ | 1.56 |
| 35 | .77¾ | .79½ | .81½ | .83¼ | .85¼ | 65 | 1.44½ | 1.47¾ | 1.51¼ | 1.54¾ | 1.58½ |
| 36 | .80 | .81¾ | .83½ | .85¾ | .87¾ | 66 | 1.46¾ | 1.50 | 1.53½ | 1.57¼ | 1.61 |
| 37 | .82¼ | .84 | .86 | .88 | .90¼ | 67 | 1.49 | 1.52¼ | 1.55¾ | 1.59½ | 1.63½ |
| 38 | .84½ | .86¼ | .88½ | .90½ | .92¾ | 68 | 1.51 | 1.54½ | 1.58¼ | 1.62 | 1.65½ |
| 39 | .86¾ | .88½ | .90¾ | .92¾ | .95 | 69 | 1.53¼ | 1.56¾ | 1.60½ | 1.64¼ | 1.68¼ |
| 40 | .89 | .90¾ | .93 | .95¼ | .97½ | 70 | 1.55½ | 1.59 | 1.62¾ | 1.66¾ | 1.70¾ |
| 41 | .91 | .93¼ | .95¼ | .97½ | 1.00 | | | | | | |

The small figures denote ¼, ½, and ¾.

## Shrinkage Tables, — *continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | | PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | 60 | 61 | 62 | 63 | 64 | | 60 | 61 | 62 | 63 | 64 |
| 12 | .30 | .30$^{3}$ | .31$^{2}$ | .32$^{2}$ | .33$^{1}$ | 42 | 1.05 | 1.07$^{3}$ | 1.10$^{2}$ | 1.14 | 1.16$^{3}$ |
| 13 | .32$^{2}$ | .33$^{1}$ | .34$^{1}$ | .35$^{1}$ | .36 | 43 | 1.07$^{2}$ | 1.10$^{1}$ | 1.13 | 1.16$^{1}$ | 1.19$^{2}$ |
| 14 | .35 | .36 | .36$^{3}$ | .37$^{3}$ | .39 | 44 | 1.10 | 1.13 | 1.15$^{3}$ | 1.19 | 1.22$^{1}$ |
| 15 | .37$^{2}$ | .38$^{2}$ | .39$^{2}$ | .40$^{2}$ | .41$^{3}$ | 45 | 1.12$^{3}$ | 1.15$^{2}$ | 1.18$^{2}$ | 1.21$^{2}$ | 1.25 |
| 16 | .40 | .41 | .42 | .43$^{1}$ | .44$^{2}$ | 46 | 1.15 | 1.18 | 1.21 | 1.24$^{2}$ | 1.28 |
| 17 | .42$^{2}$ | .43$^{2}$ | .44$^{3}$ | .46 | .47$^{1}$ | 47 | 1.17$^{2}$ | 1.20$^{3}$ | 1.23$^{3}$ | 1.27 | 1.30$^{2}$ |
| 18 | .45 | .46$^{1}$ | .47$^{1}$ | .48$^{3}$ | .50 | 48 | 1.20 | 1.23 | 1.26$^{1}$ | 1.29$^{3}$ | 1.33$^{1}$ |
| 19 | .47$^{2}$ | .48$^{3}$ | .50 | .51$^{1}$ | .52$^{3}$ | 49 | 1.22$^{2}$ | 1.25$^{3}$ | 1.29 | 1.32$^{2}$ | 1.36 |
| 20 | .50 | .51 | .52$^{2}$ | .54 | .55$^{2}$ | 50 | 1.25 | 1.28$^{1}$ | 1.31$^{2}$ | 1.35$^{1}$ | 1.39 |
| 21 | .52$^{2}$ | .53$^{3}$ | .55$^{1}$ | .56$^{3}$ | .58$^{1}$ | 51 | 1.27$^{2}$ | 1.31 | 1.34$^{1}$ | 1.38 | 1.41$^{2}$ |
| 22 | .55 | .56$^{1}$ | .57$^{3}$ | .59 | .61 | 52 | 1.30 | 1.33$^{2}$ | 1.37 | 1.40$^{3}$ | 1.44$^{2}$ |
| 23 | .57$^{2}$ | .59 | .60$^{2}$ | .62$^{1}$ | .64 | 53 | 1.32$^{2}$ | 1.36 | 1.39$^{2}$ | 1.43$^{1}$ | 1.47 |
| 24 | .60 | .61$^{2}$ | .63 | .64$^{3}$ | .66$^{3}$ | 54 | 1.35 | 1.38$^{2}$ | 1.42 | 1.46 | 1.50 |
| 25 | .62$^{2}$ | .64$^{1}$ | .66 | .67$^{3}$ | .69$^{2}$ | 55 | 1.37$^{2}$ | 1.41 | 1.44$^{3}$ | 1.48$^{3}$ | 1.52$^{3}$ |
| 26 | .65 | .66$^{3}$ | .68$^{2}$ | .70 | .72$^{1}$ | 56 | 1.40 | 1.43$^{2}$ | 1.47$^{2}$ | 1.51$^{2}$ | 1.55$^{2}$ |
| 27 | .67$^{2}$ | .69$^{1}$ | .71 | .73 | .75 | 57 | 1.42$^{2}$ | 1.46$^{1}$ | 1.50 | 1.54 | 1.58$^{1}$ |
| 28 | .70 | .72 | .73$^{3}$ | .75$^{3}$ | .77$^{3}$ | 58 | 1.45 | 1.48$^{3}$ | 1.52$^{2}$ | 1.56$^{3}$ | 1.61 |
| 29 | .72$^{2}$ | .74$^{1}$ | .76$^{1}$ | .78$^{1}$ | .80$^{2}$ | 59 | 1.47$^{2}$ | 1.51$^{1}$ | 1.55$^{1}$ | 1.60 | 1.64 |
| 30 | .75 | .77 | .79 | .81 | .83$^{1}$ | 60 | 1.50 | 1.54 | 1.58 | 1.62 | 1.66$^{3}$ |
| 31 | .77$^{2}$ | .79$^{2}$ | .81$^{2}$ | .84 | .86 | 61 | 1.52$^{2}$ | 1.56$^{2}$ | 1.60$^{2}$ | 1.65 | 1.69$^{2}$ |
| 32 | .80 | .82 | .84$^{1}$ | .86$^{3}$ | .88$^{3}$ | 62 | 1.55 | 1.59 | 1.63 | 1.67$^{3}$ | 1.72$^{1}$ |
| 33 | .82$^{2}$ | .84$^{2}$ | .86$^{3}$ | .89$^{1}$ | .91$^{3}$ | 63 | 1.57$^{2}$ | 1.61$^{2}$ | 1.65$^{3}$ | 1.70$^{1}$ | 1.75 |
| 34 | .85 | .87$^{1}$ | .89$^{2}$ | .92 | .94$^{2}$ | 64 | 1.60 | 1.64$^{1}$ | 1.68$^{2}$ | 1.73 | 1.77$^{3}$ |
| 35 | .87$^{2}$ | .89$^{3}$ | .92 | .94$^{2}$ | .97$^{1}$ | 65 | 1.62$^{2}$ | 1.66$^{3}$ | 1.71 | 1.75$^{3}$ | 1.80$^{2}$ |
| 36 | .90 | .92$^{1}$ | .94$^{3}$ | .97$^{1}$ | 1.00 | 66 | 1.65 | 1.69$^{1}$ | 1.73$^{3}$ | 1.78$^{2}$ | 1.83$^{1}$ |
| 37 | .92$^{2}$ | .95 | .97$^{3}$ | 1.00 | 1.02$^{3}$ | 67 | 1.67$^{2}$ | 1.72 | 1.76$^{1}$ | 1.81$^{1}$ | 1.86 |
| 38 | .95 | .97$^{2}$ | 1.00 | 1.02$^{3}$ | 1.05$^{2}$ | 68 | 1.70 | 1.75$^{2}$ | 1.79 | 1.84 | 1.89 |
| 39 | .97$^{2}$ | 1.00 | 1.02$^{3}$ | 1.05$^{2}$ | 1.08$^{1}$ | 69 | 1.72$^{2}$ | 1.77 | 1.81$^{2}$ | 1.86$^{3}$ | 1.91$^{3}$ |
| 40 | 1.00 | 1.02$^{3}$ | 1.05$^{1}$ | 1.08$^{1}$ | 1.11 | 70 | 1.75 | 1.79$^{2}$ | 1.84 | 1.89$^{1}$ | 1.94$^{2}$ |
| 41 | 1.02$^{2}$ | 1.05$^{1}$ | 1.08 | 1.11 | 1.14 | | | | | | |

The small figures denote $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$.

**Shrinkage Tables,**—*continued.*
SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | |
|---|---|---|---|---|---|
| | 65 | 66 | 67 | 68 | 69 |
| 12 | .34½ | .35½ | .36½ | .37½ | .38¾ |
| 13 | .37½ | .38½ | .39½ | .40½ | .42 |
| 14 | .40 | .41½ | .42½ | .43¾ | .45½ |
| 15 | .42¾ | .44 | .45½ | .47 | .48½ |
| 16 | .45½ | .47 | .48½ | .50 | .51½ |
| 17 | .48½ | .50 | .51½ | .53½ | .54¾ |
| 18 | .51½ | .53 | .54½ | .56½ | .58 |
| 19 | .54½ | .56 | .57½ | .59½ | .61½ |
| 20 | .57 | .58¾ | .60½ | .62½ | .64½ |
| 21 | .59½ | .61¾ | .63 | .65½ | .67¾ |
| 22 | .62¾ | .64¾ | .66¾ | .68¾ | .71 |
| 23 | .65¾ | .67½ | .69½ | .71¾ | .74 |
| 24 | .68½ | .70½ | .72¾ | .75 | .77½ |
| 25 | .71½ | .73½ | .75¾ | .78 | .80½ |
| 26 | .74 | .76 | .78½ | .81½ | .84 |
| 27 | .77 | .79½ | .82 | .84½ | .87 |
| 28 | .80 | .82½ | .85 | .87½ | .90 |
| 29 | .82½ | .85½ | .88 | .90½ | .93½ |
| 30 | .85¾ | .88½ | .91 | .93¾ | .97 |
| 31 | .88½ | .91 | .94 | .96¾ | 1.00 |
| 32 | .91½ | .94 | .97 | 1.00 | 1.03½ |
| 33 | .94½ | .96¾ | 1.00 | 1.03½ | 1.06½ |
| 34 | .97½ | 1.00 | 1.03 | 1.06½ | 1.09¾ |
| 35 | 1.00 | 1.03 | 1.06 | 1.09½ | 1.13 |
| 36 | 1.03 | 1.06 | 1.09 | 1.12 | 1.16 |
| 37 | 1.05¾ | 1.08¾ | 1.12½ | 1.15¾ | 1.19½ |
| 38 | 1.08½ | 1.11¾ | 1.15½ | 1.18½ | 1.22½ |
| 39 | 1.11½ | 1.14¾ | 1.18½ | 1.21¾ | 1.26 |
| 40 | 1.14½ | 1.17¾ | 1.21¾ | 1.25 | 1.29 |
| 41 | 1.17½ | 1.20½ | 1.24½ | 1.28 | 1.32½ |
| 42 | 1.20 | 1.23½ | 1.27½ | 1.31½ | 1.35½ |
| 43 | 1.23 | 1.26½ | 1.30½ | 1.34½ | 1.38¾ |
| 44 | 1.26 | 1.30 | 1.33¾ | 1.37½ | 1.42 |
| 45 | 1.28½ | 1.32½ | 1.36½ | 1.40½ | 1.45 |
| 46 | 1.31¾ | 1.35½ | 1.39½ | 1.43¾ | 1.48½ |
| 47 | 1.34½ | 1.38 | 1.42½ | 1.47 | 1.51½ |
| 48 | 1.37 | 1.41 | 1.45½ | 1.50 | 1.54¾ |
| 49 | 1.40 | 1.44½ | 1.48¾ | 1.53 | 1.58 |
| 50 | 1.43 | 1.47 | 1.51½ | 1.56 | 1.61 |
| 51 | 1.45¾ | 1.50 | 1.54½ | 1.59½ | 1.64½ |
| 52 | 1.49 | 1.53 | 1.57¾ | 1.62½ | 1.67¾ |
| 53 | 1.51½ | 1.56 | 1.60¾ | 1.65½ | 1.70¾ |
| 54 | 1.54½ | 1.58¾ | 1.63¾ | 1.69 | 1.74 |
| 55 | 1.57½ | 1.61¾ | 1.66½ | 1.71½ | 1.77½ |
| 56 | 1.60 | 1.64¾ | 1.69½ | 1.75 | 1.80½ |
| 57 | 1.62¾ | 1.67½ | 1.72¾ | 1.78 | 1.83¾ |
| 58 | 1.65¾ | 1.70½ | 1.75¾ | 1.81½ | 1.87 |
| 59 | 1.68¾ | 1.73½ | 1.79 | 1.84½ | 1.90 |
| 60 | 1.71¾ | 1.76½ | 1.82 | 1.87½ | 1.93¾ |
| 61 | 1.74½ | 1.79½ | 1.85 | 1.90½ | 1.96¾ |
| 62 | 1.77½ | 1.82½ | 1.88 | 1.93¾ | 2.00 |
| 63 | 1.80 | 1.85½ | 1.90¾ | 1.96½ | 2.03½ |
| 64 | 1.83 | 1.88½ | 1.94½ | 2.00 | 2.06½ |
| 65 | 1.86 | 1.91½ | 1.97 | 2.03 | 2.09¾ |
| 66 | 1.88¾ | 1.94 | 2.00 | 2.06 | 2.13 |
| 67 | 1.91½ | 1.97 | 2.03½ | 2.09½ | 2.16 |
| 68 | 1.94½ | 2.00 | 2.06½ | 2.12½ | 2.19½ |
| 69 | 1.97 | 2.03 | 2.09½ | 2.15½ | 2.22½ |
| 70 | 2.00 | 2.06 | 2.12½ | 2.18¾ | 2.25¾ |

The small figures denote ¼, ½, and ¾.

## Shrinkage Tables, — *continued.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | | PRICE. | Per cent. of Shrinkage. | | | |
|---|---|---|---|---|---|---|---|---|---|
| | 70 | 71 | 72 | 73 | | 70 | 71 | 72 | 73 |
| 12 | .40 | .41$^{2}$ | .42$^{3}$ | .44$^{2}$ | 42 | 1.40 | 1.44$^{3}$ | 1.50 | 1.55$^{2}$ |
| 13 | .43$^{1}$ | .44$^{3}$ | .46$^{2}$ | .48$^{1}$ | 43 | 1.43$^{1}$ | 1.48$^{1}$ | 1.53$^{2}$ | 1.59$^{1}$ |
| 14 | .46$^{3}$ | .48$^{1}$ | .50 | .51$^{3}$ | 44 | 1.46$^{3}$ | 1.51$^{3}$ | 1.57$^{1}$ | 1.63 |
| 15 | .50 | .51$^{3}$ | .53$^{2}$ | .55$^{2}$ | 45 | 1.50 | 1.55$^{1}$ | 1.60$^{3}$ | 1.66$^{3}$ |
| 16 | .53$^{1}$ | .55$^{1}$ | .57$^{1}$ | .59$^{1}$ | 46 | 1.53$^{1}$ | 1.58$^{2}$ | 1.64$^{1}$ | 1.70$^{1}$ |
| 17 | .56$^{3}$ | .58$^{2}$ | .60$^{3}$ | .63$^{3}$ | 47 | 1.56$^{3}$ | 1.62 | 1.67$^{3}$ | 1.74 |
| 18 | .60 | .62 | .64$^{1}$ | .66$^{3}$ | 48 | 1.60 | 1.65$^{2}$ | 1.71$^{2}$ | 1.77$^{3}$ |
| 19 | .63$^{1}$ | .65$^{2}$ | .67$^{3}$ | .70$^{1}$ | 49 | 1.63$^{1}$ | 1.69 | 1.75 | 1.81$^{2}$ |
| 20 | .66$^{3}$ | .69 | .71$^{2}$ | .74 | 50 | 1.66$^{3}$ | 1.72$^{2}$ | 1.78$^{2}$ | 1.85$^{1}$ |
| 21 | .70 | .72$^{2}$ | .75 | .77$^{3}$ | 51 | 1.70 | 1.75$^{3}$ | 1.82$^{1}$ | 1.89 |
| 22 | .73$^{1}$ | .75$^{3}$ | .78$^{2}$ | .81$^{2}$ | 52 | 1.73$^{1}$ | 1.79$^{1}$ | 1.85$^{3}$ | 1.92$^{2}$ |
| 23 | .76$^{3}$ | .79$^{1}$ | .82$^{1}$ | .85$^{1}$ | 53 | 1.76$^{3}$ | 1.82$^{3}$ | 1.89$^{1}$ | 1.96$^{1}$ |
| 24 | .80 | .82$^{3}$ | .85$^{3}$ | .89 | 54 | 1.80 | 1.86$^{1}$ | 1.92$^{3}$ | 2.00 |
| 25 | .83$^{1}$ | .86$^{1}$ | .89$^{1}$ | .92$^{2}$ | 55 | 1.83$^{1}$ | 1.89$^{3}$ | 1.96$^{2}$ | 2.03$^{3}$ |
| 26 | .86$^{3}$ | .89$^{3}$ | .92$^{3}$ | .96$^{1}$ | 56 | 1.86$^{3}$ | 1.93 | 2.00 | 2.07$^{2}$ |
| 27 | .90 | .93 | .96$^{2}$ | 1.00 | 57 | 1.90 | 1.96$^{2}$ | 2.03$^{2}$ | 2.11 |
| 28 | .93$^{1}$ | .96$^{2}$ | 1.00 | 1.03$^{3}$ | 58 | 1.93$^{1}$ | 2.00 | 2.07$^{1}$ | 2.14$^{3}$ |
| 29 | .96$^{3}$ | 1.00 | 1.03$^{2}$ | 1.07$^{2}$ | 59 | 1.96$^{3}$ | 2.03$^{2}$ | 2.10$^{3}$ | 2.18$^{2}$ |
| 30 | 1.00 | 1.03$^{2}$ | 1.07$^{1}$ | 1.11 | 60 | 2.00 | 2.07 | 2.14$^{1}$ | 2.22$^{1}$ |
| 31 | 1.03$^{1}$ | 1.07 | 1.10$^{3}$ | 1.14$^{3}$ | 61 | 2.03$^{1}$ | 2.10$^{1}$ | 2.17$^{3}$ | 2.26 |
| 32 | 1.06$^{3}$ | 1.10$^{1}$ | 1.14$^{1}$ | 1.18$^{2}$ | 62 | 2.06$^{3}$ | 2.13$^{3}$ | 2.21$^{2}$ | 2.29$^{3}$ |
| 33 | 1.10 | 1.13$^{3}$ | 1.17$^{3}$ | 1.22$^{1}$ | 63 | 2.10 | 2.17$^{1}$ | 2,25 | 2.33$^{1}$ |
| 34 | 1.13$^{1}$ | 1.17$^{1}$ | 1.21$^{2}$ | 1.26 | 64 | 2.13$^{1}$ | 2.20$^{3}$ | 2.28$^{2}$ | 2.37 |
| 35 | 1.16$^{3}$ | 1.20$^{3}$ | 1.25 | 1.29$^{3}$ | 65 | 2.16$^{3}$ | 2.24$^{1}$ | 2.32$^{1}$ | 2.40$^{3}$ |
| 36 | 1.20 | 1.24$^{1}$ | 1.28$^{3}$ | 1.33$^{1}$ | 66 | 2.20 | 2.27$^{2}$ | 2.35$^{3}$ | 2.44$^{2}$ |
| 37 | 1.23$^{1}$ | 1.27$^{2}$ | 1.32$^{1}$ | 1.37 | 67 | 2.23$^{1}$ | 2.31 | 2.39$^{1}$ | 2.48$^{1}$ |
| 38 | 1.26$^{3}$ | 1.31 | 1.35$^{3}$ | 1.40$^{3}$ | 68 | 2.26$^{3}$ | 2.34$^{2}$ | 2.42$^{3}$ | 2.51$^{3}$ |
| 39 | 1.30 | 1.34$^{2}$ | 1.39$^{1}$ | 1.44$^{2}$ | 69 | 2.30 | 2.38 | 2.46$^{2}$ | 2.55$^{2}$ |
| 40 | 1.33$^{1}$ | 1.38 | 1.42$^{3}$ | 1.48$^{1}$ | 70 | 2.33$^{1}$ | 2.41$^{2}$ | 2.50 | 2.59$^{1}$ |
| 41 | 1.36$^{3}$ | 1.41$^{2}$ | 1.46$^{2}$ | 1.51$^{3}$ | | | | | |

The small figures denote $\frac{1}{4}$, $\frac{1}{2}$, and $\frac{3}{4}$.

## Shrinkage Tables, — *concluded.*

SHOWING COST OF SCOURED WOOL.

| PRICE. | Per cent. of Shrinkage. | | | |
|---|---|---|---|---|
| | **74** | **75** | **76** | **77** |
| 6 | .23⅛ | .24 | .25 | .26⅓ |
| 7 | .27 | .28 | .29 | .30½ |
| 8 | .30¾ | .32 | .33⅓ | .34¾ |
| 9 | .34½ | .36 | .37½ | .39 |
| 10 | .38½ | .40 | .41⅜ | .43½ |
| 11 | .42⅓ | .44 | .45⅜ | .47¾ |
| 12 | .46 | .48 | .50 | .52¼ |
| 13 | .50 | .52 | .54 | .57⅛ |
| 14 | .54 | .56 | .58½ | .61 |
| 15 | .57½ | .60 | .62½ | .65¼ |
| 16 | .61½ | .64 | .66⅔ | .69½ |
| 17 | .65⅓ | .68 | .70¾ | .74 |
| 18 | .69¼ | .72 | .75 | .78⅛ |
| 19 | .73 | .76 | .79¼ | .82½ |
| 20 | .77 | .80 | .83⅓ | .87 |
| 21 | .80¾ | .84 | .87½ | .91⅛ |

| | **78** | **79** | **80** | **81** |
|---|---|---|---|---|
| 6 | .27¼ | .28½ | .30 | .31[3-5] |
| 7 | .31¾ | .33⅓ | .35 | .36⅞ |
| 8 | .36⅓ | .38 | .40 | .42[1-10] |
| 9 | .41 | .42¾ | .45 | .47⅜ |
| 10 | .45½ | .47½ | .50 | .52⅝ |
| 11 | .50 | .52⅛ | .55 | .57[9-10] |

| PRICE. | Per cent. of Shrinkage. | | | |
|---|---|---|---|---|
| | **78** | **79** | **80** | **81** |
| 12 | .54½ | .57 | .60 | .63[1-6] |
| 13 | .59 | .62 | .65 | .68[2-5] |
| 14 | .63½ | .66⅔ | .70 | .73⅜ |
| 15 | .68 | .71¼ | .75 | .79 |
| 16 | .72¾ | .76¼ | .80 | .84[1-5] |
| 17 | .77¼ | .81 | .85 | .89½ |
| 18 | .81¾ | .85⅜ | .90 | .94¾ |
| 19 | .86⅕ | .90½ | .95 | 1.00 |
| 20 | .91 | .95¼ | 1.00 | 1.05¼ |
| 21 | .95½ | 1.00 | 1.05 | 1.10½ |

| | **82** | **83** | **84** | **85** |
|---|---|---|---|---|
| 5 | .27¾ | .29[2-5] | .31¼ | .33⅓ |
| 6 | .33⅓ | .35½ | .37½ | .40 |
| 7 | .38⅞ | .41[1-6] | .43¾ | .46⅔ |
| 8 | .44[2-5] | .47 | .50 | .53⅓ |
| 9 | .50 | .53 | .56¼ | .60 |
| 10 | .55½ | .58⅞ | .62½ | .66⅔ |
| 11 | .61⅛ | .64¾ | .68¾ | .73⅓ |
| 12 | .66⅔ | .70[3-5] | .75 | .80 |
| 13 | .72[1-5] | .76½ | .81¼ | .86⅔ |
| 14 | .77¾ | .82⅓ | .87½ | .93⅓ |
| 15 | .83⅓ | .88¼ | .93¾ | 1.00 |

## No. 104. — Values of Foreign Coins.

As fixed by U.S. Treasury Department, Oct. 1, 1891.

| Country. | Standard. | Monetary unit. | Value in terms of U.S. gold dollar. |
|---|---|---|---|
| Argentine Republic | Gold and Silver | Peso | $0.96, 5 |
| Austria-Hungary | Silver | Florin | .35, 7 |
| Belgium | Gold and Silver | Franc | .19, 3 |
| Bolivia | Silver | Boliviano | .72, 3 |
| Brazil | Gold | Milreis | .54, 6 |
| British Possessions N.A. (except Newfoundland) | Gold | Dollar | 1.00 |
| Central American States: Costa Rica, Guatemala, Honduras, Nicaragua, Salvador | Silver | Peso | .72, 3 |
| Chili | Gold and Silver | Peso | .91, 2 |
| China | Silver | Tael { Shanghai | 1.06, 8 |
| | | Tael { Haikwan (Cust's). | 1.18, 9 |
| Colombia | Silver | Peso | .72, 3 |
| Cuba | Gold and Silver | Peso | .92, 6 |
| Denmark | Gold | Crown | .26, 8 |
| Ecuador | Silver | Sucre | .72, 3 |
| Egypt | Gold | Pound (100 piastres) | 4.94, 3 |
| Finland | Gold | Mark | .19, 3 |
| France | Gold and Silver | Franc | .19, 3 |
| German Empire | Gold | Mark | .23, 8 |
| Great Britain | Gold | Pound sterling | 4.86, 6½ |
| Greece | Gold and Silver | Drachma | .19, 3 |
| Hayti | Gold and Silver | Gourde | .96, 5 |
| India | Silver | Rupee | .34, 3 |
| Italy | Gold and Silver | Lira | .19, 3 |
| Japan | *Gold and Silver | Yen { Gold | .99, 7 |
| | | Yen { Silver | .77, 9 |
| Liberia | Gold | Dollar | 1.00 |
| Mexico | Silver | Dollar | .78, 5 |
| Netherlands | Gold and Silver | Florin | .40, 2 |
| Newfoundland | Gold | Dollar | 1.01, 4 |
| Norway | Gold | Crown | .26, 8 |
| Peru | Silver | Sol | .72, 3 |
| Portugal | Gold | Milreis | 1.08 |
| Russia | Silver | Rouble | .57, 8 |
| Spain | Gold and Silver | Peseta | .19, 3 |
| Sweden | Gold | Crown | .26, 8 |
| Switzerland | Gold and Silver | Franc | .19, 3 |
| Tripoli | Silver | Mahbub of 20 piastres | .65, 2 |
| Turkey | Gold | Piastre | .04, 4 |
| Venezuela | Silver | Bolivar | .14, 5 |

* Gold the nominal standard. Silver practically the standard.

## No. 105. — Tariffs on Wool.

Rates of duty imposed on Wool by Various Acts of Congress, 1789–1890.

| Date of Act of Congress. | Date of Tariff. | Rates of Duty. |
|---|---|---|
| July 4, 1789, | July 4, 1789, | Free. |
| Apr. 27, 1816, | " 1, 1816, | 15 per cent. ad valorem. |
| May 22, 1824, | " 1, 1824, | Value not exceeding 10 cts. per pound, 15% ad val. |
| | " 1, 1824, | Value exceeding 10 cts. per pound, 20% ad val. |
| | June 1, 1825, | Value exceeding 10 cts. per pound, 25% ad val. |
| | " 1, 1826, | Value exceeding 10 cts. per pound, 30% ad val. |
| May 19, 1828, | July 1, 1828, | 4 cts. per pound and 40% ad val.[1] |
| | " 1, 1829, | 4 cts. per pound and 45% ad val.[1] |
| | " 1, 1830, | 4 cts. per pound and 50% ad val.[1] |
| July 14, 1832, | Mch. 3, 1833, | Value not over 8 cts. per pound, Free. |
| | " 3, 1833, | Value over 8 cts. per pound, 4 cts. per pound and 40% ad val.[1] |
| Mch. 2, 1833, | Jan. 1, 1834, | Value not over 8 cts. per pound, Free. |
| | " 1, 1834, | Value over 8 cts. per pound, 4 cts. per pound and 38% ad val. |
| | " 1, 1836, | Value over 8 cts. per pound, 4 cts. per pound and 36% ad val. |
| | " 1, 1838, | Value over 8 cts. per pound, 4 cts. per pound and 34% ad val. |
| | " 1, 1840, | Value over 8 cts. per pound, 4 cts. per pound and 32% ad val. |
| | " 1, 1842, | Value over 8 cts. per pound, 4 cts. per pound and 26% ad val. |
| | July 1, 1842, | Value over 8 cts. per pound, 4 cts. per pound and 20% ad val. |
| Aug. 30, 1842, | Aug. 30, 1842, | Value not over 7 cts. per pound, 5% ad val. |
| | " 30, 1842, | Value over 7 cts. per pound, 3 cts. per pound and 30% ad val. |
| July 30, 1846, | Dec. 1, 1846, | Thibet, Angora, and other goats' hair or mohair, 20% ad val. |
| | " 1, 1846, | All other wool, 30% ad val. |
| Mch. 3, 1857, | July 1, 1857, | Value not over 20 cts. per pound, Free. |
| | " 1, 1857, | Thibet, Angora, etc., value over 20 cts. per pound, 15% ad val. |
| | " 1, 1857, | All other over 20 cts. per pound, 24% ad val. |
| Mch. 2, 1861, | Apr. 1, 1861, | Sheep skins with wool on, 15%. |
| | " 1, 1861, | Value less than 18 cts. per pound, 5%. |
| | " 1, 1861, | Value, 18 cts. and not more than 24 cts. per pound, 3 cts. per lb. |
| | " 1, 1861, | Value over 24 cts., 9 cts. per pound. |
| June 30, 1864, | July 1, 1864, | Sheepskins with wool on, 20%. |
| | " 1, 1864, | Value per pound 12 cts. or less, 3 cts. per pound. |
| | " 1, 1864, | Value over 12 cts. and not over 24 cts., 6 cts. per pound. |
| | " 1, 1864, | Value over 24 cts. and not over 32 cts., 10 cts. per pound and 10% ad val. |
| | " 1, 1864, | Value over 32 cts., 12 cts. per pound and 10% ad val. |
| | " 1, 1864, | Wools scoured, treble the amount of duty. |
| | " 1, 1864, | Flocks, waste, or shoddy, 3 cts. per pound. |

[1] Wools on the skin were dutiable at the same rates as other imported wools.

TARIFFS ON WOOL. — *Concluded.*

| Date of Act of Congress. | Date of Tariff. | Rates of Duty. |
|---|---|---|
| Mch. 2, 1867, | Mch. 2, 1867, | Clothing wools, 32 cts. or less, 10 cts. per pound and 11% ad val. Over 32 cts., 12 cts. per pound and 10% ad val. Washed, twice the amount of duty.<br>Combing wool, 32 cts. or less, 10 cts. per pound and 11% ad val. Over 32 cts., 12 cts. per pound and 10% ad val.<br>Carpet wool, 12 cts. or less, 3 cts. per pound. Over 12 cts., 6 cts. per pound.<br>All classes scoured, treble the amount of duty.<br>Sheep and goat skins with wool on, 30% ad val.<br>Woolen rags, shoddy, mungo, waste, and flocks, 12 cts. per pound. |
| July 14, 1870, | Jan. 1, 1871, | Wools on skin to be dutiable at the same rates as other wools. |
| June 6, 1872, | Aug. 1, 1872, | Reduction of 10% on all duties. |
| Mch. 3, 1875, | Mch. 3, 1875, | Rates under tariff of Mch. 2, 1867, restored. |
| Mch. 3, 1883, | July 1, 1883, | Clothing wools, value of 30 cts. or less, 10 cts. per pound. Over 30 cts., 12 cts. per pound. Washed, twice the amount of duty.<br>Combing wools, value of 30 cts. or less, 10 cts. per pound. Over 30 cts., 12 cts. per pound.<br>Carpet wools, value of 12 cts. or less, 2½ cts. per pound. Over 12 cts., 5 cts. per pound.<br>Wools of all kinds, scoured, treble the amount of duty.<br>Wools on the skin, same as other wools.<br>Waste, mungo, shoddy, etc., 10 cts. per pound. |
| Oct. 1, 1890, | Oct. 6, 1890, | Clothing wools, 11 cts. per pound. Washed, double duty; scoured, treble duty.<br>Combing wools and hairs, 12 cts. per pound. Scoured, treble duty.<br>Carpet wools, valued at 13 cts. or under, 32%; valued over 13 cts., 50% ad val. |

## No. 106. — Comparative Value of Domestic and Imported Wool Manufactures: United States.

*With Per Capita Value and Percentage of Total Consumption.*

| Years. | Domestic Manufactures. | | | Importations. | | |
|---|---|---|---|---|---|---|
| | Value. | Value per Capita. | Percentage of Total Consumption. | Value. | Value per Capita. | Percentage of Total Consumption. |
| 1820 | $4,413,068 | $0.46 | 38 | $7,238,954 | $0 75 | 62 |
| 1830 . | 14,528,166 | 0.88 | 64 | 8,290,062 | 0.75 | 36 |
| 1840 . | 20,696,999 | 0.82 | 60 | 13 950,772 | 0.94 | 40 |
| 1850 . | 43,207,545 | 1.86 | 77 | 13,005,852 | 0.65 | 23 |
| 1860 . | 65,596,364 | 2.09 | 68 | 31,333.273 | 1.16 | 32 |
| 1870 . | 177,495,689 | 4.60 | 85 | 33,046,521 | 0.94 | 15 |
| 1880 . | 267,252,913 | 5.34 | 87 | 39.537,694 | 0.90 | 13 |
| 1890 . | 338,231,109 | 5.40 | 86 | 54,165,422 | 0.86 | 14 |

# UNITED STATES TARIFF OF 1890: SCHEDULE K.

## Wool and Manufactures of Wool.

The rates of duty under the act of 1883 are given in parallel columns.

375. — All wools, hair of the camel, goat, alpaca, and other like animals shall be divided for the purpose of fixing the duties to be charged thereon into the three following classes: —

376. — Class one, that is to say, Merino, mestiza, metz, or metis wools, or other wools of Merino blood, immediate or remote, Down clothing wools, and wools of like character with any of the preceding, including such as have been heretofore usually imported into the United States from Buenos Ayres, New Zealand, Australia, Cape of Good Hope, Russia, Great Britain, Canada, and elsewhere, and also including all wools not hereinafter described or designated in classes two and three.

377. — Class two, that is to say, Leicester, Cotswold, Lincolnshire, Down combing wools, Canada long wools, or other like combing wools of English blood, and usually known by the terms herein used, and also hair of the camel, goat, alpaca, and other like animals.

378. — Class three, that is to say, Donskoi, native South American, Cordova, Valparaiso, native Smyrna, Russian camel's hair, and including all such wools of like character as have been heretofore usually imported into the United States from Turkey, Greece, Egypt, Syria, and elsewhere, excepting improved wools hereinafter provided for.

379. — The standard samples of all wools which are now or may be hereafter deposited in the principal custom-houses of the United States, under the authority of the Secretary of the Treasury, shall be the standards for the classification of wools under this act, and the Secretary of the Treasury shall have the authority to renew these standards and to make such additions to them from time to time as may be required, and he shall cause to be deposited like standards in other custom-houses of the United States when they may be needed.

380. — Whenever wools of class three shall have been improved by the admixture of Merino or English blood from their present character as represented by the standard samples now or hereafter to be deposited in the principal custom-houses of the United States, such improved wools shall be classified for duty either as class one or class two, as the case may be.

381. — The duty on wools of the first class which shall be imported washed shall be twice the amount of the duty to which they would be subjected if imported unwashed; and the duty on wools of the first and second classes which shall be imported scoured shall be three times the duty to which they would be subjected if imported unwashed.

382. — Unwashed wools shall be considered such as shall have been shorn from the sheep without any cleansing; that is, in their natural condition. Washed wools shall be considered such as have been washed with water on the sheep's back. Wool washed in any other manner than on the sheep's back shall be considered as scoured wool.

383. — The duty upon wool of the sheep or hair of the camel, goat, alpaca, and other like animals, which shall be imported in any other than ordinary condition, or which shall be changed in its character or condition for the purpose of evading the duty, or which shall be reduced in value by the admixture of dirt, or any other foreign substance, or which has been sorted or increased in value by the rejection of any part of the original fleece, shall be twice the duty to which it would be otherwise subject: *Provided*, That skirted wools as now imported are hereby excepted. Wools on which a duty is assessed amounting to three times or more than that which would be assessed if said wool was imported unwashed, such duty shall not be doubled on account of its being sorted. If any bale or package of wool or hair specified in this act, imported as of any specified class, or claimed by the importer to be dutiable as of any specified class, shall contain any wool or hair subject to a higher rate of duty than the class so specified, the whole bale or package shall be subject to the highest rate of duty chargeable on wool of the class subject to such higher rate of duty, and if any bale or package be claimed by the importer to be shoddy, mungo, flocks, wool, hair, or other material of any class specified in this act, and such bale con-

tain any admixture of any one or more of said materials, or of any other material, the whole bale or package shall be subject to duty at the highest rate imposed upon any article in said bale or package.

| | 1890. | 1883. |
|---|---|---|
| 384. — The duty upon all wools and hair of the **first** class shall be, per pound . . . . | 11c. | 10c. & 12c. |
| 384. — All wools and hair of the **second** class, per pound . . . . . | 12c. | 10c. & 12c. |
| 385. — Wools of the **third** class and **camel's hair** of the **third** class, the value whereof shall be 13 cents or less per lb., including charges, ad valorem . . . . . | 32 p.c. | 2½c. & 5c. |
| 386. — Wools of the **third** class and **camel's** hair of the **third** class, the value whereof shall exceed 13 cents per pound, including charges, ad valorem . . . . . | 50 p.c. | 5c. |
| 387. — **Wools on the skin** shall pay the same rate as other wools, the quantity and value to be ascertained under such rules as the Secretary of the Treasury may prescribe. | | |
| 388. — **Noils, shoddy, top waste,** slubbing waste, roving waste, ring waste, yarn waste, garnetted waste, and all other wastes composed wholly or in part of wool, per lb., | 30c. | 10c. |
| 389. — Woolen **rags, mungo,** and **flocks,** per lb. . . . . | 10c. | 10c. |
| 390. — Wools and hair of the camel, goat, alpaca, or other like animals, in the form of **roping, roving,** or **tops,** and all wool and hair which have been advanced in any manner or by any process of manufacture beyond the washed or scoured condition, not specially provided for in this act, shall be subject to the same duties as are imposed upon manufactures of wool not specially provided for in this act. | | |
| 391. — On woolen and worsted **yarns** made wholly or in part of wool, worsted, the hair of the camel, goat, alpaca, or other animals, valued at not more than 30 cents per lb., per lb. and ad valorem . . . . . | 27½c. & 35 p.c. | 10c. & 35 p.c. |
| 391. — Valued at more than 30 cents and not more than 40 cents per lb., per lb. and ad valorem . . . . . | 33c. & 35 p.c. | 12c. & 35 p.c. |
| 391. — Valued at more than 40 cents per lb., per lb. and ad valorem . . . . . | 38½c. & 40 p.c. | 18c. & 35 p.c.<br>24c. & 35 p.c.<br>35c. & 40 p.c. |
| 392. — On **woolen** or **worsted cloths,**[1] **shawls,** knit fabrics,[2] and all fabrics made on knitting-machines or frames, and **all manufactures of every description** made wholly or in part of wool, worsted, the hair of the camel, goat, alpaca, or other animals, **not specially provided for** in this act, valued at not more than 30 cents per lb., per lb. and ad valorem . . . . . | 33c. & 40 p.c. | 35c. & 35 p.c. |
| 392. — Valued at more than 30 and not more than 40 cents per lb., per lb. and ad valorem, | 38½c. & 40 p.c. | do. |
| 392. — Valued at above 40 cents per lb., per lb. and ad valorem . . . . . | 44c. & 50 p.c. | 35c. & 35 p.c.[3] |

[1] Worsted cloths, valued at less than 80c. a pound, were dutiable under the act of 1883 the same as yarns.

[2] Knit underwear has been decided by the courts to be wearing apparel, and dutiable under 396.

[3] Woolen cloths, valued at not exceeding 80 cents per pound, 35c. & 35 p.c.; over 80 cts., 35c. & 40 p.c.

| | 1890. | 1883. |
|---|---|---|
| 393. — On **Blankets, hats** of wool, and **flannels** for underwear, composed wholly or in part of wool, the hair of the camel, goat, alpaca, or other animals, valued at not more than 30 cents per lb., per lb. and ad valorem | 16½c. & 30 p.c. | |
| 393. — Valued at more than 30 and not more than 40 cents per lb., per lb. and ad valorem, | 22c. & 35 p.c. | |
| 393. — Valued at more than 40 cents and not more than 50 cents per lb., per lb. and ad valorem | 33c. & 35 p.c. | Same rates as on yarns. |
| 393. — **Blankets** and **hats** of wool composed wholly or in part of wool, the hair of the camel, goat, alpaca, or other animals, valued at more than 50 cents per lb., per lb. and ad valorem | 38½c. & 40 p.c. | |
| 393. — **Flannels** composed wholly or in part of wool, the hair of the camel, goat, alpaca, or other animals, valued above 50 cents per lb., shall be classified and pay the same duty as women's and children's dress goods, coat linings, Italian cloths, and goods of similar character and description. | | |
| 394. — Women's and children's **dress goods, coat linings, Italian cloths,** and goods of similar character or description, of which the warp consists wholly of cotton or other vegetable material, with the remainder of the fabric composed wholly or in part of wool, etc., valued at not exceeding 15 cents per square yard, per square yard and ad valorem | 7c. & 40 p.c. | 5c. & 35 p.c. |
| 394. — Valued at above 15 cents per square yard, per square yard and ad valorem | 8c. & 50 p.c. | 7c. & 40 p.c. |
| 394. — *Provided*, that on all such goods weighing over four ounces per square yard, the duty per lb. shall be four times the duty imposed by this act on a pound of unwashed wool of the first class, and in addition thereto, 50 per centum ad valorem. | | |
| 395. — On women's and children's **dress goods, coat linings, Italian cloth, bunting,**[1] and goods of similar description or character, composed wholly or in part of wool, worsted, the hair of the camel, goat, alpaca, or other animals, and not specially provided for in this act, per square yard and ad valorem | 12c. & 50 p.c. | 9c. & 40 p.c. |
| 395. — *Provided*, that on all such goods weighing over four ounces per square yard, the duty per lb. shall be four times the duty imposed by this act on a pound of unwashed wool of the first class, and in addition thereto, 50 per centum ad valorem | 44c. & 50 p.c. | 35c. & 40 p.c. |
| 396. — On **Clothing,** ready made, and articles of wearing apparel of every description, made up or manufactured wholly or in part, not specially provided for in this act, **felts,**[2] not woven, and not specially provided for in this act, and **plushes** and other **pile fabrics,** all the foregoing, composed wholly or in part of wool, worsted, the hair of the camel, goat, alpaca, or other animals, per lb. and ad valorem | 49½c. & 60 p.c. | 40c. & 35 p.c. |

[1] Duty on bunting, act of 1883, 10c. per square yd. and 35 p.c.

[2] Endless belts or felts dutiable at 20c. per pd. & 30 p.c., under act of 1883; other felts, plushes, and pile fabrics were dutiable at 35c. and 35 p.c., when valued at not exceeding 80c. per pd.; valued at over 80c., 35c. and 40 p.c.

| | 1890. | 1883. |
|---|---|---|
| 397.—On **Cloaks, dolmans, jackets, talmas, ulsters,** or other **outside garments** for ladies' and children's apparel, and goods of similar description, or used for like purposes, composed wholly or in part of wool, worsted, the hair of the camel, goat, alpaca, or other animals, made up or manufactured wholly or in part, per lb. and ad valorem | 49½c. & 60 p.c. | 45c. & 40 p.c. |
| 398.—On **webbings,** gorings, suspenders, braces, beltings, bindings, braids, galloons, fringes, gimps, cords, cords and tassels, dress trimmings, laces and embroideries, head nets, buttons, or barrel buttons, or buttons of other forms, for tassels or ornaments, wrought by hand or braided by machinery, any of the foregoing which are elastic or non-elastic, made of wool, worsted, the hair of the camel, goat, alpaca, or other animals, or of which wool, worsted, the hair of the camel, goat, alpaca, or other animals is a component material, per lb. and ad valorem, | 60c. & 60 p.c. | 30c. & 50 p.c. |
| 399.—Aubusson, Axminster, Moquette, and Chenille **carpets,** figured or plain, carpets woven whole for rooms, and all carpets or carpeting of like character or description, and Oriental, Berlin, and other similar rugs, per square yard and ad valorem | 60c. & 40 p.c. | 45c. & 30 p.c. |
| 400.—Saxony, Wilton, and Tournay velvet carpets, figured or plain, and all carpets or carpeting of like character or description per square yard and ad valorem | 60c. & 40 p.c. | 45c. & 30 p.c. |
| 401.—Brussels carpets, figured or plain, and all carpets or carpeting of like character or description, per square yard and ad valorem | 44c. & 40 p.c. | 30c. & 30 p.c. |
| 402.—Velvet, and tapestry velvet carpets, figured or plain, printed on the warp or otherwise, and all carpets or carpeting of like character or description, per square yard and ad valorem | 40c. & 40 p.c. | 25c. & 30 p.c. |
| 403.—Tapestry Brussels carpets, figured or plain, and all carpets or carpeting of like character or description, printed on the warp or otherwise, per square yard and ad valorem | 28c. & 40 p.c. | 20c. & 30 p.c. |
| 404.—Treble ingrain, three-ply, and all chain Venetian carpets, per square yard and ad valorem | 19c. & 40 p.c. | 12c. & 30 p.c. |
| 405.—Wool Dutch, and two-ply ingrain carpets, per square yard and ad valorem | 14c. & 40 p.c. | 8c. & 30 p.c. |
| 406.—Druggets and bockings, printed, colored or otherwise, per square yard and ad valorem, | 22c. & 40 p.c. | 15c. & 30 p.c. |
| 406.—Felt carpeting, figured or plain, per square yard and ad valorem | 11c. & 40 p.c. | 40 p.c. |
| 407.—Carpets, and carpeting of wool, flax, or cotton, or composed in part of either, not specially provided for, ad valorem | 50 p.c. | 40 p.c. |
| 408.—Mats, rugs, screens, covers, hassocks, bed sides, art squares, and other portions of carpets or carpeting, made wholly or in part of wool, and not specially provided for in this act, shall be subjected to the rate of duty herein imposed on carpets or carpetings of like character or description | | 40 p.c. |

414.—All manufactures of silk, or of which silk is the component material of chief value, not specially provided for in this act, fifty per centum ad valorem: *Provided*, That all such manufactures, of which wool, or the hair of the camel, goat, or other like animals is a component material, shall be classified as manufactures of wool.

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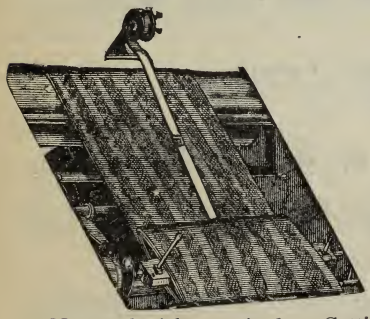

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